

Iowa Department of Natural Resources Title V Operating Permit

Name of Permitted Facility: Pella Corporation
Facility Location: 102 Main St., Pella, IA 50219
Air Quality Operating Permit Number: 00-TV-030R1
Expiration Date: April 22, 2012

EIQ Number: 92-4047
Facility File Number: 63-02-003

Responsible Official

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Title: Senior Group Vice President of Manufacturing
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This permit is issued in accordance with 567 Iowa Administrative Code Chapter 22, and is issued subject to the terms and conditions contained in this permit.

For the Director of the Department of Natural Resources

Douglas A Campbell, Supervisor of Air Operating Permits Section

Date

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Abbreviations

acfm.....	actual cubic feet per minute
CFR.....	Code of Federal Regulation
°F.....	degrees Fahrenheit
EIQ.....	emissions inventory questionnaire
gr./dscf	grains per dry standard cubic foot
gr./100 cf.....	grains per one hundred cubic feet
IAC.....	Iowa Administrative Code
IDNR.....	Iowa Department of Natural Resources
MVAC.....	motor vehicle air conditioner
NSPS	new source performance standard
ppmv	parts per million by volume
lb./hr.....	pounds per hour
lb./MMBtu	pounds per million British thermal units
TPY	Tons per year
USEPA.....	United States Environmental Protection Agency

Pollutants

PM.....	particulate matter (equivalent to TSP, total suspended particulate)
PM ₁₀	Particulate matter ten microns and less in diameter
SO ₂	sulfur dioxide
NO _x	nitrogen oxides
VOC	volatile organic compound
CO	carbon monoxide
HAP.....	hazardous air pollutant

I. Facility Description and Equipment List

Facility Name: Pella Corporation – Pella, Iowa

Permit Number: 00-TV-030R1

Facility Description: Millwork (SIC 2431)

Equipment List

Emission Point Number	Emission Unit Number	Emission Unit Description	IDNR Construction Permit Number
2	2	Boiler # 2	00-A-1010
3	3	Paint/Lacquer Spray Booth	05-A-648
7A	7A	Wood Treating Vacuum Tank	
7B	7B	Wood Treating Drying Room	
8	8	Paint Booth	00-A-181-S3
10A	10A	Wood Paint Machine	00-A-952-S1
10B	10B	Wood Paint Line Dryer	00-A-953
14	14	Boiler # 3	04-A-1011
16	16	Boiler # 4	01-A-994-S1
19	19	Woodworking Operations	79-A-035-S4
21	21	Woodworking Operations	92-A-579-S3
27	27	Woodworking Operations	92-A-582-S3
28	28	Woodworking Operations	92-A-583-S2
29	29	Hardware Paint Booth	92-A-596-S5
30	30	Woodworking Operations	92-A-584-S2
31	31	Vertical Line Paint Booth	92-A-602-S5
32	32	Vertical Line Paint Booth	92-A-603-S5
33	33	Vertical Line Paint Booth	92-A-604-S6
34	34	Vertical Line Paint Booth	92-A-605-S6
35	35	Horizontal Line Paint Booth	92-A-606-S7
37	37	Horizontal Line Paint Booth	92-A-644-S7
38	38	Horizontal Line Paint Booth	92-A-608-S7
39	39	Hardware Paint Bake Oven	92-A-587-S3
40	40	Vertical Line Dry-Off Oven	92-A-588-S3
41	41	Vertical Line Bake Oven	92-A-589-S3
42	42	Vertical Line Bake Oven	92-A-590-S3
47	47	Horizontal Line Bake Oven	92-A-592-S3
48	48	Horizontal Line Bake Oven	92-A-593-S3
49	49	Boiler	88-A-186-S2
52	52	Maintenance Paint Booth	04-A-437-S1

Emission Point Number	Emission Unit Number	Emission Unit Description	IDNR Construction Permit Number
53	53	Sludge Dryer	90-A-156-S1
54	54	Woodworking Operations	92-A-585-S2
55	55	Woodworking Operations	92-A-586-S2
CO	58	Wood Preservative Dip Tank	98-A-872-S6
CO	59	Wood Preservative Dip Tank	98-A-872-S6
CO	60	Wood Preservative Dip Tank	98-A-872-S6
CO	62	Wood Preservative Dip Tank	98-A-872-S6
CO	63	Wood Preservative Dip Tank	98-A-872-S6
58	58	Wood Preservative Dip Tank Bypass Stack	92-A-558-S6
59	59	Wood Preservative Dip Tank Bypass Stack	92-A-559-S6
60	60	Wood Preservative Dip Tank Bypass Stack	92-A-560-S6
62	62	Wood Preservative Dip Tank Bypass Stack	92-A-562-S6
63	63	Wood Preservative Dip Tank Bypass Stack	92-A-563-S6
68A	68A	Horizontal Line Paint Booth	92-A-645-S7
68B	68B	Horizontal Line Paint Booth	02-A-910-S2
69	69	Woodworking Operations	98-A-386-S3
71	71	Woodworking Operations	
72	72	Woodworking Operations	
74A	74A	Pretreatment System	04-A-1012
74B	74B	Pretreatment system	04-A-1013
76	76	Hogwood Bin	01-A-995-S1
77	77	Sawdust Silo	01-A-996-S1
A2F	72	Woodworking Operations (Internal Fugitive)	
A3F	71	Woodworking Operations (Internal Fugitive)	
A3F	78A	Wood Paint Machine (Internal Fugitive)	
A3F	78B	Wood Paint Dryer (Internal Fugitive)	
Internally Vented 1	Fug-1	Parts Washers	
Internally Vented 1	Fug-2	Sealant Application	
Internally Vented 1	Fug-3	Make UP Air Units 43, 44, & 45	
SURFACE Apps	Surface Apps	Surface Application of Chemicals – Fugitive	
86	86	Wood Dust System	99-A-189-S3
88	88	Wood Dust System	00-A-017-S2
89	89	Wood Dip-Dry Double Hung Jambs	00-A-011-S3
90	90	Research & Development Paint Booth	00-A-182-S5
91	91	Infrared Dry Off Oven	00-A-183-S1
93	93	Paint Booth	01-A-541

Emission Point Number	Emission Unit Number	Emission Unit Description	IDNR Construction Permit Number
94	94	Clean-up Booth	00-A-550-S2
96	96	Casement Dip/Dry	01-A-285-S1
99	99	R & D UV Cure Oven	01-A-398-S2
102	102	Wood Dust System	01-A-1234-S1
103	103	Pretreatment System	01-A-1341-S1
104	104	Pretreatment System	01-A-1342-S1
105	105	Cooling Tunnel for Pretreatment System	01-A-1343-S1
106	106	Cooling Tunnel for Pretreatment System	01-A-1344-S1
107	107	Paint Booth – Clad Frame	02-A-085
108A	108	Paint Line Cure Oven	02-A-086
108B	108	Paint Line Cure Oven	02-A-087
108C	108	Paint Line Cure Oven	02-A-088
110	110	Horizontal Paint Spray Booth	02-A-911-S2
112	112	Service Parts Wood Dip	03-A-333
113	113	Wood Dip Dry DH Sash	03-A-1155
114A & B	114A & B	UV Coater and UV Curing Chamber	04-A-060
115	115	Kohler Diesel IC Engine – Emergency Generator	04-A-1038
116	116	Wood Dip Double Hung	05-A-070
CO	CO	Catalytic Oxidizer	98-A-872-S6
118	118	Stain Booth	07-A-129
119	119	Top Coat Spray Booth #1	07-A-030
120	120	Electric IR Dry Off Oven #1	07-A-031
121	121	Top Coat Spray Booth #2	07-A-132
122	122	Electric IR Dry Off Oven #2	07-A-133

Insignificant Activities Equipment List

Insignificant Emission Unit Number	Insignificant Emission Unit Description
67	Color Lab Paint Booth
70	Aqueous Parts Washer Oven
81	Wood Preservative Storage Tank
82	Wood Preservative Drain Tank
83	No. 2 Fuel Oil Storage Tank

II. Plant-Wide Conditions

Facility Name: Pella Corporation
Permit Number: 00-TV-030R1

Permit conditions are established in accord with 567 Iowa Administrative Code Rule 22.108

Permit Duration

The term of this permit is: Five (5) years
Commencing on: April 23, 2007
Ending on: **April 22, 2012**

Amendments, modifications and reopenings of the permit shall be obtained in accordance with 567 Iowa Administrative Code rules 22.110 - 22.114. Permits may be suspended, terminated, or revoked as specified in 567 Iowa Administrative Code Rules 22.115.

Emission Limits

Unless specified otherwise in the Source Specific Conditions, the following limitations and supporting regulations apply to all emission points at this plant:

Opacity (visible emissions): 40% opacity
Authority for Requirement: 567 IAC 23.3(2)"d"

Sulfur Dioxide (SO₂): 500 parts per million by volume
Authority for Requirement: 567 IAC 23.3(3)"e"

Particulate Matter (state enforceable only)¹:

No person shall cause or allow the emission of particulate matter from any source in excess of the emission standards specified in this chapter, except as provided in 567 – Chapter 24. For sources constructed, modified or reconstructed after July 21, 1999, the emission of particulate matter from any process shall not exceed an emission standard of 0.1 grain per dry standard cubic foot of exhaust gas, except as provided in 567 – 21.2(455B), 23.1(455B), 23.4(455B) and 567 – Chapter 24.

For sources constructed, modified or reconstructed prior to July 21, 1999, the emission of particulate matter from any process shall not exceed the amount determined from Table I, or amount specified in a permit if based on an emission standard of 0.1 grain per standard cubic foot of exhaust gas or established from standards provided in 23.1(455B) and 23.4(455B).
Authority for Requirement: 567 IAC 23.3(2)"a" (as revised 7/21/1999)

¹ This is the current language in the Iowa Administrative Code (IAC). This version of the rule is awaiting EPA approval to become part of Iowa's State Implementation Plan (SIP). When EPA approves this rule, it will replace the older version and will be considered federally enforceable.

Particulate Matter (federally enforceable)²:

The emission of particulate matter from any process shall not exceed the amount determined from Table I, except as provided in 567 — 21.2(455B), 23.1(455B), 23.4(455B) and 567 — Chapter 24. If the director determines that a process complying with the emission rates specified in Table I is causing or will cause air pollution in a specific area of the state, an emission standard of 0.1 grain per standard cubic foot of exhaust gas may be imposed.

Authority for Requirement: 567 IAC 23.3(2)"a" (prior to 7/21/1999)

Fugitive Dust: Attainment and Unclassified Areas - No person shall allow, cause or permit any materials to be handled, transported or stored; or a building, its appurtenances or a construction haul road to be used, constructed, altered repaired or demolished, with the exception of farming operations or dust generated by ordinary travel on unpaved public roads, without taking reasonable precautions to prevent particulate matter in quantities sufficient to create a nuisance, as defined in Iowa Code section 657.1, from becoming airborne. All persons, with the above exceptions, shall take reasonable precautions to prevent the discharge of visible emissions of fugitive dusts beyond the lot line of the property on which the emissions originate. The highway authority shall be responsible for taking corrective action in those cases where said authority has received complaints of or has actual knowledge of dust conditions which require abatement pursuant to this subrule. Reasonable precautions may include, but not limited to, the following procedures.

1. Use, where practical, of water or chemicals for control of dusts in the demolition of existing buildings or structures, construction operations, the grading of roads or the clearing of land.
2. Application of suitable materials, such as but not limited to asphalt, oil, water or chemicals on unpaved roads, material stockpiles, race tracks and other surfaces which can give rise to airborne dusts.
3. Installation and use of containment or control equipment, to enclose or otherwise limit the emissions resulting from the handling and transfer of dusty materials, such as but not limited to grain, fertilizers or limestone.
4. Covering at all times when in motion, open-bodied vehicles transporting materials likely to give rise to airborne dusts.
5. Prompt removal of earth or other material from paved streets or to which earth or other material has been transported by trucking or earth-moving equipment, erosion by water or other means.

Authority for Requirement: 567 IAC 23.3(2)"c"

40 CFR 60 Subpart A This facility is subject to, and must comply with the requirements of 40 CFR 60 Subpart A.

40 CFR 63 Subpart A This facility is subject to, and must comply with the requirements of 40 CFR 63 Subpart A.

40 CFR 61 Subpart A This facility is subject to, and must comply with the requirements of 40 CFR 61 Subpart A.

² This is the current language in the Iowa SIP, and is enforceable by EPA.

Compliance Plan

The owner/operator shall comply with the applicable requirements listed below. The compliance status is based on information provided by the applicant.

Unless otherwise noted in Section III of this permit, Pella Corporation is in compliance with all applicable requirements and shall continue to comply with all such requirements. For those applicable requirements which become effective during the permit term, Pella Corporation shall comply with such requirements in a timely manner.

Authority for Requirement: 567 IAC 22.108(15)

III. Emission Point-Specific Conditions

Facility Name: Pella Corporation
Permit Number: 00-TV-030R1

Emission Point ID Number: 2

Associated Equipment

Associated Emission Unit ID Numbers (if multiple units vent thru this EP): 2

Emission Unit vented through this Emission Point: 2
Emission Unit Description: Boiler 2
Raw Material/Fuel: Natural Gas and #2 Fuel Oil
Rated Capacity: 8.37 MMBtu/hr

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit(s): 40%⁽¹⁾
Authority for Requirement: 567 IAC 23.3(2)"d"

⁽¹⁾An exceedance of the indicator opacity of (25%) will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: Particulate Matter
Emission Limit(s): 0.6 lb/MMBtu
Authority for Requirement: IDNR Construction Permit 04-A-1010
567 IAC 23.3(2)"b"

Pollutant: Sulfur Dioxide (SO₂)

Emission Limit(s): 2.5 lb/MMBtu (fuel oil)
500 ppmv (natural gas)

Authority for Requirement: IDNR Construction Permit 04-A-1010
567 IAC 23.3(3)"b"
567 IAC 23.3(3)"e"

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

NESHAP Applicability

1. This emission unit shall comply with all applicable requirements from 40 CFR Part 63, Subpart DDDDD, NESHAP for Industrial, commercial, and Institutional Boilers and Process Heaters

Authority for Requirement: IDNR Construction Permit 04-A-1010
567 IAC 23.1(4)"dd"

Hours of operation (limit requested by facility):

1. The emission unit may operate on natural gas as the main fuel and fuel oil #2 or #1 as the backup fuel.
2. The maximum sulfur content in the fuel oil shall not exceed a sulfur content weight percent of 0.5%.
3. This source is limited to operate 7,168 hours per 12 month period, rolled monthly, while burning fuel oil. Record the time that this source is burning fuel oil, in hours, based on a 12-month rolling period, rolled monthly.

Authority for Requirement: IDNR Construction Permit 04-A-1010

Reporting & Record keeping:

The following records shall be maintained on-site for five (5) years and available for inspection upon request by representatives of the Department of Natural Resources:

1. The facility shall monitor the percent of sulfur by weight in the fuel oil as delivered. The documentation may be vendor supplied or facility generated.
2. The owner or operator shall record the hours this unit combusts fuel oil, and update the rolling twelve month total hours of operation on fuel oil on a monthly basis

Authority for Requirement: IDNR Construction Permit 04-A-1010
567 IAC 22.108(3)

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 37

Stack Opening, (inches, dia.): 15

Exhaust Flow Rate (scfm): 1,320

Exhaust Temperature (°F): 350°

Discharge Style: vertical obstructed

Authority for Requirement: IDNR Construction Permit 04-A-1010

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

A stack test will be required for particulate matter if this unit exceeds 7,168 hours per 12 month period, rolled monthly, while burning fuel oil. If the hourly limit is exceeded, the stack test must be conducted within sixty (60) days.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Compliance Assurance Monitoring (CAM) Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 3

Associated Equipment

Associated Emission Unit ID Numbers (if multiple units vent thru this EP): 3

Emissions Control Equipment ID Number: CE-3

Emissions Control Equipment Description: Dry filter

Emission Unit vented through this Emission Point: 3

Emission Unit Description: Paint/Lacquer Spray Booth

Raw Material/Fuel: Varnish, Paint

Rated Capacity: 4.75 gal/hr

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity

Emission Limit(s): 40%⁽¹⁾

Authority for Requirement: IDNR Construction Permit 05-A-648-S1
567 IAC 23.3(2)"d"

⁽¹⁾An exceedance of the indicator opacity of 10% will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: Particulate Matter

Emission Limit(s): 0.01 gr/dscf

Authority for Requirement: IDNR Construction Permit 05-A-648-S1
567 IAC 23.4(13)

Pollutant: Hazardous Air Pollutants (HAP)

Emission Limit(s): 231 g HAP/l solids⁽¹⁾⁽²⁾

Authority for Requirement: IDNR Construction Permit 05-A-648-S1
567 IAC 23.1(4)"cq"

⁽¹⁾231 gram of HAP/liter of solids = 1.93 lb of HAP/gal of solids.

⁽²⁾Determined as a rolling 12-month emission rate according to the requirements in 40 CFR §63.4741, 40 CFR §63.4751, or §63.4761, as applicable.

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

NESHAP Applicability

1. This emission unit shall comply with all applicable requirements from 40 CFR Part 63, Subpart QQQQ, NESHAP for Surface Coating of Wood Building Products.

Authority for Requirement: IDNR Construction Permit 05-A-648-S1
567 IAC 23.1(4)"cq"

Process Throughput:

1. The maximum VOC content of any material (i.e. paint, solvent, lacquer, etc.) used shall not exceed 7.0 pounds per gallon.
2. This unit shall not use more than 2,000 gallons of materials (i.e. paint, solvent, lacquer, etc.) per rolling twelve (12) month period.

Reporting and Recordkeeping:

All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner. The owner or operator of the paint booth shall:

1. A record of all materials used and their respective VOC contents.
2. For the first twelve (12) months of operation, determine the total amount of material (i.e. paint, solvent, lacquer, etc.) used (in gallons/month) in this emission unit for each month of operation.
3. After the first twelve (12) months of operations, determine the cumulative amount of material (i.e. paint, solvent, lacquer, etc.) used (in gallons/year) in this emission unit on a rolling 12-month basis for each month of operation.
4. Monitoring for NESHAP Subpart QQQ at the facility (plant number 63-02-003) shall be done per the subpart.
5. Recordkeeping for NASHAP Subpart QQQQ at the facility (plant number 63-02-003) shall be done per the subpart.

Authority for Requirement: Iowa DNR Construction Permit 05-A-648-S1

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 36

Stack Opening, (inches, dia.): 42

Exhaust Flow Rate (scfm): 18,000 - 22,000

Exhaust Temperature (°F): Ambient

Discharge Style: Unobstructed vertical

Authority for Requirement: Iowa DNR Construction Permit 05-A-648-S1

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☒ No ☐

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Compliance Assurance Monitoring (CAM) Plan Required? Yes ☐ No ☒

Paint Booth Agency Operation & Maintenance Plan

Weekly

- Inspect the paint booth system for conditions that reduce the operating efficiency of the collection system. This will include a visual inspection of the condition of the filter material.
- Maintain a written record of the observation and any action resulting from the inspection.

Record Keeping and Reporting

Maintenance and inspection records will be kept for five years and available upon request.

Quality Control

- The filter equipment will be operated and maintained according to the manufacturers recommendations.

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 7A

Associated Equipment

Associated Emission Unit ID Numbers (if multiple units vent thru this EP): 7A

Emission Unit vented through this Emission Point: 7A
Emission Unit Description: Wood Treating Vacuum Tank
Raw Material/Fuel: Wood Preservative
Rated Capacity: 25.84 gal./hr

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

No Applicable Limits

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Compliance Assurance Monitoring (CAM) Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 7B

Associated Equipment

Associated Emission Unit ID Numbers(s) (if multiple units vent thru this EP): 7B

Emission Unit vented through this Emission Point: 7B

Emission Unit Description: Drying Room

Raw Material/Fuel: Wood Preservative

Rated Capacity: 25.84 gal./hr

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

No Applicable Limits

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Compliance Assurance Monitoring (CAM) Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 8

Associated Equipment

Associated Emission Unit ID Number (if multiple units vent thru this EP): 8

Emissions Control Equipment ID Number: 8

Emissions Control Equipment Description: Dry Filters

Emission Unit vented through this Emission Point: 8

Emission Unit Description: Paint Spray Booth

Raw Material/Fuel: Paint and Thinner

Rated Capacity: 6.7 gal./hr

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity

Emission Limit(s): 40%⁽¹⁾

Authority for Requirement: Iowa DNR Construction Permit 00-A-181-S3
567 IAC 23.3(2)"d"

⁽¹⁾ An exceedance of the indicator opacity of (no visible emissions) will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: PM₁₀

Emission Limit(s): 0.53 lb/hr

Authority for Requirement: Iowa DNR Construction Permit 00-A-181-S3

Pollutant: Particulate Matter

Emission Limit(s): 0.01 gr./dscf

Authority for Requirement: Iowa DNR Construction Permit 00-A-181-S3
567 IAC 23.4(13)

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

NESHAP Applicability

1. This emission unit shall comply with all applicable requirements from 40 CFR Part 63, Subpart M, NESHAP for Coating of Miscellaneous Metal Parts

Authority for Requirement: 567 IAC 23.1(4)"cm"

Process Throughput:

1. Only one (1) paint spray gun with the maximum spray capacity equal to or less than 6.7 gal/hr shall be operated in this booth at one time.
2. The maximum solid content of any painting materials used in this booth is limited to no more than 11.00 lb/gal.
3. The maximum VOC content of any painting materials used in this booth is limited to no more than 6.40 lb/gal as applied.
4. All painting materials used in this booth are limited to 1550 gallons per 12-month rolling period. Painting material is defined as paints, solvents, lacquers, and any other liquids used for surface coating products at the facility.

The owner or operator of the equipment may use the **VOCs/HAPs Emission Record Form for Paint Facilities** in lieu of the requirements in Conditions (2) and (3) above, and Conditions (1), (2), (3), and (4) below.

Reporting and Recordkeeping:

All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner. The owner or operator of the paint booth shall:

1. Record VOCs and solids content in lbs/gal for each painting material used in the booth.
2. Record monthly usage in gallons/month for each painting material.
3. During first one (1) month of operation, determine cumulative painting material usage each month of operation.
4. After the first eleven (11) months of operation, determine the amount of each painting material used in any 12-month rolling period.
5. Record maintenance or replacement of filters.

Authority for Requirement: Iowa DNR Construction Permit 00-A-181-S3

Emission Point Characteristics

This emission point shall conform to the conditions listed below.

Stack Height (feet): 57

Stack Diameter (inches): 36

Stack Exhaust Flow Rate (scfm): 5,500

Stack Temperature (°F): ambient

Discharge Style: Vertical Unobstructed

Authority for Requirement: Iowa DNR Construction Permit 00-A-181-S3

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☒ No ☐

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Compliance Assurance Monitoring (CAM) Plan Required? Yes ☐ No ☒

Paint Booth Agency Operation & Maintenance Plan

Weekly

- Inspect the paint booth system for conditions that reduce the operating efficiency of the collection system. This will include a visual inspection of the condition of the filter material.
- Maintain a written record of the observation and any action resulting from the inspection.

Record Keeping and Reporting

Maintenance and inspection records will be kept for five years and available upon request.

Quality Control

- The filter equipment will be operated and maintained according to the manufacturers recommendations.

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 10A

Associated Equipment

Associated Emission Unit ID Number (if multiple units vent thru this EP): 10A

Emissions Control Equipment ID Number: 10A

Emissions Control Equipment Description: Dry Filter

Emission Unit vented through this Emission Point: 10A

Emission Unit Description: Paint Spray Booth

Raw Material/Fuel: Paint

Rated Capacity: 55.8 gal./hr

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity

Emission Limit(s): 40%⁽¹⁾

Authority for Requirement: Iowa DNR Construction Permit 00-A-952-S1
567 IAC 23.3(2)"d"

⁽¹⁾ An exceedance of the indicator opacity of (10%) will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: Particulate Matter

Emission Limit(s): 0.01 gr./dscf

Authority for Requirement: Iowa DNR Construction Permit 00-A-952-S1
567 IAC 23.4(13)

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): 6.0 tons/year⁽²⁾

Authority for Requirement: Iowa DNR Construction Permit 00-A-952-S1

⁽²⁾ Emission Limit based on operating limits

Operating Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below:

NESHAP Applicability

1. This emission unit shall comply with all applicable requirements from 40 CFR Part 63, Subpart M, NESHAP for Coating of Miscellaneous Metal Parts

Authority for Requirement: 567 IAC 23.1(4)"cm"

Process Throughput:

1. The maximum VOC content of any painting material used in this booth is limited to no more than 1.50 lb/gallon.
2. All painting materials used in this booth are limited to 8000 gallons per twelve-month rolling total. Material is defined as paints, solvents, lacquers, and any other liquids used for surface coating products at the facility.
3. The maximum solid content of any painting material used in this booth is limited to no more than 8.00 lb/gallon.
4. The paint spray booth shall not operate more than 6 spray guns at one time. Maximum spray capacity shall not exceed 0.93 gallons per minute (55.8 gallons/hr).

The owner or operator of the equipment may use the **VOCs/HAPs Emissions Record Form for Paint Facilities** in lieu of the requirements in conditions (1), (2) & (3) above, and conditions (1) & (2) below. However, records must be maintained on a daily basis to ensure compliance with the 6.0 tpy VOC limit.

Reporting and Recordkeeping:

All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.

- 1) Record the VOCs and solids content in lbs/gallon for each painting material used.
- 2) Record the quantity of spray material used per twelve-month rolling total.
- 3) Maintain MSDS sheets for all spray materials used.
- 4) Record all maintenance and replacement of the filters.

Authority for Requirement: Iowa DNR Construction Permit 00-A-952-S1

Emission Point Characteristics

This emission point shall conform to the specifications listed below:

Stack Height (feet): 33

Stack Diameter (inches): 18

Stack Exhaust Flow Rate (scfm): 5,000

Stack Temperature (°F): Ambient

Discharge Style: Vertical Unobstructed

Authority for Requirement: Iowa DNR Construction Permit 00-A-952-S1

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☒ No ☐

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Compliance Assurance Monitoring (CAM) Plan Required? Yes ☐ No ☒

Agency Paint Booth Operation & Maintenance Plan**Weekly**

- Inspect the paint booth system for conditions that reduce the operating efficiency of the collection system. This will include a visual inspection of the condition of the filter material.
- Maintain a written record of the observation and any action resulting from the inspection.

Record Keeping and Reporting

Maintenance and inspection records will be kept for five years and available upon request.

Quality Control

- The filter equipment will be operated and maintained according to the manufacturers recommendations.

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 10B

Associated Equipment

Associated Emission Unit ID Numbers (if multiple units vent thru this EP): 10B

Emission Unit vented through this Emission Point: 10B

Emission Unit Description: Infrared Dry-Off Oven (electric)

Raw Material/Fuel: Paint

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

No applicable limits at this time.

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

There are no operational limits and requirements at this time.

Emission Point Characteristics

This emission point shall conform to the specifications listed below:

Stack Height (feet): 33

Stack Diameter (inches): 20

Stack Exhaust Flow Rate (scfm): 9000

Stack Temperature (°F): 120

Discharge Style: Horizontal

Authority for Requirement: Iowa DNR Construction Permit 00-A-953

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Compliance Assurance Monitoring (CAM) Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 14

Associated Equipment

Associated Emission Unit ID Numbers (if multiple units vent thru this EP): 14

Emission Unit vented through this Emission Point: 14

Emission Unit Description: Boiler 3

Raw Material/Fuel: Natural Gas and #2 Fuel Oil

Rated Capacity: 14.65 MMBtu/hr

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity

Emission Limit(s): 40%⁽¹⁾

Authority for Requirement: 567 IAC 23.3(2)"d"

⁽¹⁾An exceedance of the indicator opacity of (25%) will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: PM₁₀

Emission Limit(s): 0.88 lb./MMBtu

Authority for Requirement: 567 IAC 23.3(2)"b"

Iowa DNR Construction Permit 04-A-1011

Pollutant: Particulate Matter

Emission Limit(s): 0.6 lb./MMBtu

Authority for Requirement: 567 IAC 23.3(2)"b"

Iowa DNR Construction Permit 04-A-1011

Pollutant: Sulfur Dioxide (SO₂)

Emission Limit(s): 500 ppmv (natural gas)

2.5 lb/MMBtu (fuel oil)

Authority for Requirement: 567 IAC 23.3(3)"e"

567 IAC 23.3(3)"b"

Iowa DNR Construction Permit 04-A-1011

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

NESHAP Applicability

1. This emission unit shall comply with all applicable requirements from 40 CFR Part 63, Subpart DDDDD, NESHAP for Industrial, commercial, and Institutional Boilers and Process Heaters

Authority for Requirement: IDNR Construction Permit 04-A-1011
567 IAC 23.1(4)"dd"

Operating Limits:

1. The emission unit may operate on natural gas as the main fuel and fuel oil #2 or #1 as the backup fuel.
2. The maximum sulfur content in the fuel oil shall not exceed a sulfur content weight percent of 0.5%.
3. This source is limited to 4,095 hours of operation per twelve month rolling period, rolled monthly, while burning fuel oil.

Authority for Requirement: Iowa DNR Construction Permit 04-A-1011

Reporting & Record keeping:

The following records shall be maintained on-site for five (5) years and available for inspection upon request by representatives of the Department of Natural Resources:

1. Maintain records of the sulfur content in the fuel when fuel oil is being combusted.
2. The owner or operator shall record the hours this unit combusts fuel oil, and update the rolling twelve month total hours of operation on fuel oil on a monthly basis.

Authority for Requirement: Iowa DNR Construction Permit 04-A-1011,

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 35

Stack Opening, (inches, dia.): 20

Exhaust Flow Rate (scfm): 2,606

Exhaust Temperature (°F): 350°

Discharge Style: Vertical Unobstructed

Authority for Requirement: Iowa DNR Construction Permit 04-A-1011

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the

emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Compliance Assurance Monitoring (CAM) Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 16

Associated Equipment

Associated Emission Unit ID Number: 16

Emission Unit vented through this Emission Point: 16
Emission Unit Description: Boiler 4
Raw Material/Fuel: Natural Gas and Fuel Oil #2 (back-up)
Rated Capacity: 14.65 MMBtu/hr

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity

Emission Limit(s): 40%⁽¹⁾

Authority for Requirement: Iowa DNR Construction Permit 01-A-994-S1
567 IAC 23.3(2)"d"

⁽¹⁾ An exceedance of the indicator opacity of (25%) will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: PM₁₀

Emission Limit(s): 0.26 lb./Hr

Authority for Requirement: Iowa DNR Construction Permit 01-A-994-S1

Pollutant: Particulate Matter

Emission Limit(s): 0.6 lb./MMBtu

Authority for Requirement: Iowa DNR Construction Permit 01-A-994-S1
567 IAC 23.3(2)"b"

Pollutant: Sulfur Dioxide (SO₂)

Emission Limit(s): 500 ppmv; 2.5 lb / MM BTU

Authority for Requirement: Iowa DNR Construction Permit 01-A-994-S1
567 IAC 23.3(3)"e"
567 IAC 23.3(3)"b"

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

NESHAP Applicability

1. This emission unit shall comply with all applicable requirements from 40 CFR Part 63, Subpart DDDDD, NESHAP for Industrial, commercial, and Institutional Boilers and Process Heaters

Authority for Requirement: IDNR Construction Permit 01-A-994-S1
567 IAC 23.1(4)"dd"

Operating Limits:

1. The 2.5 LB/MMBtu SO₂ emissions limit applies when the unit is operating on No. 2 fuel oil.
2. The 500 ppmv SO₂ emissions limit applies when the unit operates on natural gas.
3. The emission unit may operate on natural gas as the main fuel and fuel oil #2 or #1 as the backup fuel.
4. The maximum sulfur content in the fuel oil shall not exceed a sulfur content weight percent of 0.5%.

Authority for Requirement: Iowa DNR Construction Permit 01-A-994-S1

Reporting & Record keeping:

All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.

1. Maintain records of the sulfur content in the fuel when fuel oil is being combusted.

Authority for Requirement: Iowa DNR Construction Permit 01-A-994 – S1

Emission Point Characteristics

This emission point shall conform to the conditions listed below.

Stack Height (feet): 35

Stack Diameter (inches): 20

Stack Exhaust Flow Rate (scfm): 4,000

Stack Temperature (°F): 350

Discharge Style: Vertical Unobstructed

Authority for Requirement: Iowa DNR Construction Permit 01-A-994 – S1

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the

emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

A stack test will be required for particulate matter if this unit exceeds 7,168 hours per 12 month period, rolled monthly, while burning fuel oil. If the hourly limit is exceeded, the stack test must be conducted within sixty (60) days.

Authority for Requirement: 567 IAC 22.108(14)

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Compliance Assurance Monitoring (CAM) Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 19

Associated Equipment

Associated Emission Unit ID Numbers (if multiple units vent thru this EP): 19

Emissions Control Equipment ID Number: 19A and 19B

Emissions Control Equipment Description: Cyclone and Baghouse

Emission Unit vented through this Emission Point: 19

Emission Unit Description: Woodworking Operations

Raw Material/Fuel: Wood

Rated Capacity: 1830 Mcf/hr

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity

Emission Limit(s): 40%⁽¹⁾

Authority for Requirement: Iowa DNR Construction Permit 79-A-035-S4
567 IAC 23.3(2)"d"

⁽¹⁾ An exceedance of the indicator opacity of (no visible emissions) will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: PM₁₀

Emission Limit(s): 0.84 LB/hr

Authority for Requirement: Iowa DNR Construction Permit 79-A-035-S4

Pollutant: Particulate Matter

Emission Limit(s): 0.01 gr./dscf

Authority for Requirement: Iowa DNR Construction Permit 79-A-035-S4
567 IAC 23.3(2)"a"

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 35

Stack Opening, (inches, dia.): 48 x 48

Exhaust Flow Rate (scfm): 54,700
Exhaust Temperature (°F): Ambient
Discharge Style: Horizontal
Authority for Requirement: 79-A-035-S4

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Stack Testing:

Pollutant - PM₁₀
1st Stack Test to be Completed by (date) - within first two years of permit term
Test Method - 40 CFR 51, Appendix M, 201A with 202
Authority for Requirement - 567 IAC 22.108(3)

Stack Testing:

Pollutant - Particulate Matter
1st Stack Test to be Completed by (date) - within first two years of permit term
Test Method - Iowa Compliance Sampling Manual Method 5
Authority for Requirement - 567 IAC 22.108(3)

The owner of this equipment or the owner's authorized agent shall provide written notice to the Director, not less than 30 days before a required stack test of performance evaluations of a continuous emission monitor. Results of the test shall be submitted in writing to the Director in the form of a comprehensive report within 6 weeks of the completion of the testing. 567 IAC 25.1(7)

Agency Approved Operation & Maintenance Plan Required? Yes ☒ No ☐

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Compliance Assurance Monitoring (CAM) Plan Required? Yes ☐ No ☒

Baghouse Agency Operation & Maintenance Plan

The key element of the material outlined below is the facilities willingness to use no visible emissions as an action level for taking corrective measures. If this had not been the case, further monitoring techniques may be requested. Examples of monitoring techniques which are used to evaluate baghouse performance may be found in the compilation named "Baghouse Periodic Monitoring Literature Review" (File Name bag_lit.doc). This document is a compilation of guidance from APTI training courses and other sources on ways to monitor baghouse performance.

The following baghouse parameters should be considered by the permit reviewer when determining what is monitored and the frequency.

Baghouse Parameters

Baghouse type: ☒ Pulse Jet ☐ Reverse Air ☐ Shaker

Material handled: Wood

Moisture problems possible: ☐ Yes ☒ No

Material corrosive: ☐ Yes ☒ No

If yes, are acid resistant bags in use: ☐ Yes ☐ No

Operating temperature (°F): Ambient

Monitoring Guidelines

The facility makes a commitment to take timely corrective action during periods of excursion where the indicators are out of range. A corrective action may include an investigation of the reason for the excursion, evaluation of the situation and necessary follow-up action to return operation within the indicator range. An excursion is determined by the averaged discrete data point over a period of time. An excursion does not necessarily indicate a violation of an applicable requirement. If the corrective action measures fail to return the indicators to the appropriate range, the facility will report the exceedance to the department and conduct source testing within 90 days of the exceedance to demonstrate compliance with applicable requirements. If the test demonstrates compliance with emission limits then new indicator ranges must be set for monitoring and the new ranges must be incorporated in the operating permit. If the test demonstrates noncompliance with emission limits, then the facility, within 60 days, proposes a schedule to implement corrective action to bring the source into compliance and demonstrate compliance.

General

Periodic Monitoring is not required during periods of time greater than one day in which the source does not operate.

Weekly

- Visible emissions shall be observed on a weekly basis to ensure no visible emissions occur during the material handling operation of the unit. If visible emissions are observed this would be an excursion not a violation, and corrective action will be taken as soon as possible, but no later than 8 hours. If corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required. If an opacity (>40 %) is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If weather conditions prevent the observer from conducting an observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake readings at approximately 2 hour intervals throughout the day. If unsuccessful that day due to weather, an observation shall be made the following day.
- Check and document the baghouse pressure drop. If the pressure drop falls out of the normal operating range, specified by the manufacturer, corrective action will be taken within 8 hours to return the pressure drop to normal.

Maintain a written record of the observation and any action resulting from the inspection.

Monthly

- Check the cleaning sequence of the baghouse.
- Pulse jet baghouse - check the air delivery system
- Check the hopper functions and performance.

If leaks or abnormal conditions are detected the appropriate measures for remediation will be implemented within eight (8) hours. Maintain a written record of the inspection and any action resulting from the inspection.

Quarterly

- Thoroughly inspect bags for leaks and wear. (Look for obvious holes or tears in the bags.)

If leaks or abnormal conditions are detected the appropriate measures for remediation will be implemented within eight (8) hours. Bag replacement should be documented by identifying the date, time and location of the bag in relationship to the other bags. The location should be identified on an overhead drawing of the bag layout in the baghouse. Maintain a written record of the inspection and any action resulting from the inspection.

Semiannual

- Inspect every 6 months all components that are not subject to wear or plugging, including structural components, housing, ducts and hoods.

If leaks or abnormal conditions are detected the appropriate measures for remediation will be implemented within eight (8) hours. Maintain a written record of the inspection and any action resulting from the inspection.

Record Keeping and Reporting

Maintenance and inspection records will be kept for five years and available upon request.

Quality Control

- The filter equipment will be operated and maintained according to the manufacturers recommendations.
- An adequate inventory of spare parts shall be kept.

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 21

Associated Equipment

Associated Emission Unit ID Numbers (if multiple units vent thru this EP): 21

Emissions Control Equipment ID Number: CE 21A and CE 21B

Emissions Control Equipment Description: Cyclone and Baghouse

Emission Unit vented through this Emission Point: 21

Emission Unit Description: Woodworking Operations

Raw Material/Fuel: Wood

Rated Capacity: 2100 Mcf/hr

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity

Emission Limit(s): 40%⁽¹⁾

Authority for Requirement: Iowa DNR Construction Permit 92-A-579-S3
567 IAC 23.3(2)"d"

⁽¹⁾ An exceedance of the indicator opacity of (no visible emissions) will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: PM₁₀

Emission Limit(s): 0.72 lb/hr

Authority for Requirement: Iowa DNR Construction Permit 92-A-579-S3

Pollutant: Particulate Matter

Emission Limit(s): 3.0 lb./hr, 0.1 gr./dscf

Authority for Requirement: Iowa DNR Construction Permit 92-A-579-S3
567 IAC 23.3(2)"a"

Emission Point Characteristics

This emission point shall conform to the conditions listed below.

Stack Height (feet): 24

Stack Diameter (inches): 48 x 48

Stack Exhaust Flow Rate (scfm): 35,000

Stack Temperature (°F): Ambient

Discharge Style: Horizontal

Authority for Requirement: Iowa DNR Construction Permit 92-A-579-S3

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

The stack test for EP 19 will satisfy the periodic monitoring stack test requirements for this emission point.

Agency Approved Operation & Maintenance Plan Required? Yes ☒ No ☐

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Compliance Assurance Monitoring (CAM) Plan Required? Yes ☐ No ☒

Baghouse Agency Operation & Maintenance Plan

The key element of the material outlined below is the facilities willingness to use no visible emissions as an action level for taking corrective measures. If this had not been the case, further monitoring techniques may be requested. Examples of monitoring techniques which are used to evaluate baghouse performance may be found in the compilation named "Baghouse Periodic Monitoring Literature Review" (File Name bag_lit.doc). This document is a compilation of guidance from APTI training courses and other sources on ways to monitor baghouse performance.

The following baghouse parameters should be considered by the permit reviewer when determining what is monitored and the frequency.

Baghouse Parameters

Baghouse type: ☒ Pulse Jet ☐ Reverse Air ☐ Shaker

Material handled: Wood

Moisture problems possible: ☐ Yes ☒ No

Material corrosive: ☐ Yes ☒ No

If yes, are acid resistant bags in use: ☐ Yes ☐ No

Operating temperature (°F): Ambient

Monitoring Guidelines

The facility makes a commitment to take timely corrective action during periods of excursion where the indicators are out of range. A corrective action may include an investigation of the reason for the excursion, evaluation of the situation and necessary follow-up action to return operation within the indicator range. An excursion is determined by the averaged discrete data point over a period of time. An excursion does not necessarily indicate a violation of an applicable requirement. If the corrective action measures fail to return the indicators to the appropriate range, the facility will report the exceedance to the department and conduct source testing within 90 days of the exceedance to demonstrate compliance with applicable requirements. If the test demonstrates compliance with emission limits then new indicator ranges must be set for monitoring and the new ranges must be incorporated in the operating permit. If the test demonstrates noncompliance with emission limits, then the facility, within 60 days, proposes a schedule to implement corrective action to bring the source into compliance and demonstrate compliance.

General

Periodic Monitoring is not required during periods of time greater than one day in which the source does not operate.

Weekly

- Visible emissions shall be observed on a weekly basis to ensure no visible emissions occur during the material handling operation of the unit. If visible emissions are observed this would be an excursion not a violation, and corrective action will be taken as soon as possible, but no later than 8 hours. If corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required. If an opacity (>40 %) is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If weather conditions prevent the observer from conducting an observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake readings at approximately 2 hour intervals throughout the day. If unsuccessful that day due to weather, an observation shall be made the following day.
- Check and document the baghouse pressure drop. If the pressure drop falls out of the normal operating range, specified by the manufacturer, corrective action will be taken within 8 hours to return the pressure drop to normal.

Maintain a written record of the observation and any action resulting from the inspection.

Monthly

- Check the cleaning sequence of the baghouse.
- Pulse jet baghouse - check the air delivery system
- Check the hopper functions and performance.

If leaks or abnormal conditions are detected the appropriate measures for remediation will be implemented within eight (8) hours. Maintain a written record of the inspection and any action resulting from the inspection.

Quarterly

- Thoroughly inspect bags for leaks and wear. (Look for obvious holes or tears in the bags.)

If leaks or abnormal conditions are detected the appropriate measures for remediation will be implemented within eight (8) hours. Bag replacement should be documented by identifying the date, time and location of the bag in relationship to the other bags. The location should be identified on an overhead drawing of the bag layout in the baghouse. Maintain a written record of the inspection and any action resulting from the inspection.

Semiannual

- Inspect every 6 months all components that are not subject to wear or plugging, including structural components, housing, ducts and hoods.

If leaks or abnormal conditions are detected the appropriate measures for remediation will be implemented within eight (8) hours. Maintain a written record of the inspection and any action resulting from the inspection.

Record Keeping and Reporting

Maintenance and inspection records will be kept for five years and available upon request.

Quality Control

- The filter equipment will be operated and maintained according to the manufacturers recommendations.
- An adequate inventory of spare parts shall be kept.

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 27

Associated Equipment

Associated Emission Unit ID Numbers (if multiple units vent thru this EP): 27

Emissions Control Equipment ID Number: CE 27A and CE 27B

Emissions Control Equipment Description: Cyclone and Baghouse

Emission Unit vented through this Emission Point: 27

Emission Unit Description: Woodworking Operations

Raw Material/Fuel: Wood

Rated Capacity: 2580 Mcf/hr

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity

Emission Limit(s): 40%⁽¹⁾

Authority for Requirement: Iowa DNR Construction Permit 92-A-582-S3
567 IAC 23.3(2)"d"

⁽¹⁾ An exceedance of the indicator opacity of (no visible emissions) will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: PM₁₀

Emission Limit(s): 0.32 lb/hr

Authority for Requirement: Iowa DNR Construction Permit 92-A-582-S3

Pollutant: Particulate Matter

Emission Limit(s): 2.6 lb./hr, 0.1 gr./dscf

Authority for Requirement: Iowa DNR Construction Permit 92-A-582-S3
567 IAC 23.3(2)"a"

Emission Point Characteristics

This emission point shall conform to the conditions listed below.

Stack Height (feet): 47

Stack Diameter (inches): 48 x 48

Stack Exhaust Flow Rate (scfm): 50,200

Stack Temperature (°F): Ambient

Discharge Style: Horizontal

Authority for Requirement: Iowa DNR Construction Permit 92-A-582-S3

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Stack Testing:

Pollutant - PM₁₀

1st Stack Test to be Completed by (date) - within first two years of permit term

Test Method - 40 CFR 51, Appendix M, 201A with 202

Authority for Requirement - 567 IAC 22.108(3)

Stack Testing:

Pollutant - Particulate Matter

1st Stack Test to be Completed by (date) - within first two years of permit term

Test Method - Iowa Compliance Sampling Manual Method 5

Authority for Requirement - 567 IAC 22.108(3)

The owner of this equipment or the owner's authorized agent shall provide written notice to the Director, not less than 30 days before a required stack test or performance evaluation of a continuous emission monitor. Results of the test shall be submitted in writing to the Director in the form of a comprehensive report within 6 weeks of the completion of the testing. 567 IAC 25.1(7)

Agency Approved Operation & Maintenance Plan Required? Yes ☒ No ☐

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Compliance Assurance Monitoring (CAM) Plan Required? Yes ☐ No ☒

Baghouse Agency Operation & Maintenance Plan

The key element of the material outlined below is the facilities willingness to use no visible emissions as an action level for taking corrective measures. If this had not been the case, further monitoring techniques may be requested. Examples of monitoring techniques which are used to evaluate baghouse performance may be found in the compilation named "Baghouse Periodic Monitoring Literature Review" (File Name bag_lit.doc). This document is a compilation of guidance from APTI training courses and other sources on ways to monitor baghouse performance.

The following baghouse parameters should be considered by the permit reviewer when determining what is monitored and the frequency.

Baghouse Parameters

Baghouse type: ☒ Pulse Jet ☐ Reverse Air ☐ Shaker

Material handled: Wood

Moisture problems possible: ☐ Yes ☒ No

Material corrosive: ☐ Yes ☒ No

If yes, are acid resistant bags in use: ☐ Yes ☐ No

Operating temperature (°F): Ambient

Monitoring Guidelines

The facility makes a commitment to take timely corrective action during periods of excursion where the indicators are out of range. A corrective action may include an investigation of the reason for the excursion, evaluation of the situation and necessary follow-up action to return operation within the indicator range. An excursion is determined by the averaged discrete data point over a period of time. An excursion does not necessarily indicate a violation of an applicable requirement. If the corrective action measures fail to return the indicators to the appropriate range, the facility will report the exceedance to the department and conduct source testing within 90 days of the exceedance to demonstrate compliance with applicable requirements. If the test demonstrates compliance with emission limits then new indicator ranges must be set for monitoring and the new ranges must be incorporated in the operating permit. If the test demonstrates noncompliance with emission limits, then the facility, within 60 days, proposes a schedule to implement corrective action to bring the source into compliance and demonstrate compliance.

General

Periodic Monitoring is not required during periods of time greater than one day in which the source does not operate.

Weekly

- Visible emissions shall be observed on a weekly basis to ensure no visible emissions occur during the material handling operation of the unit. If visible emissions are observed this would be an excursion not a violation, and corrective action will be taken as soon as possible, but no later than 8 hours. If corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required. If an opacity (>40 %) is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If weather conditions prevent the observer from conducting an observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake readings at approximately 2 hour intervals throughout the day. If unsuccessful that day due to weather, an observation shall be made the following day.

- Check and document the baghouse pressure drop. If the pressure drop falls out of the normal operating range, specified by the manufacturer, corrective action will be taken within 8 hours to return the pressure drop to normal.

Maintain a written record of the observation and any action resulting from the inspection.

Monthly

- Check the cleaning sequence of the baghouse.
- Pulse jet baghouse - check the air delivery system
- Check the hopper functions and performance.

If leaks or abnormal conditions are detected the appropriate measures for remediation will be implemented within eight (8) hours. Maintain a written record of the inspection and any action resulting from the inspection.

Quarterly

- Thoroughly inspect bags for leaks and wear. (Look for obvious holes or tears in the bags.)

If leaks or abnormal conditions are detected the appropriate measures for remediation will be implemented within eight (8) hours. Bag replacement should be documented by identifying the date, time and location of the bag in relationship to the other bags. The location should be identified on an overhead drawing of the bag layout in the baghouse. Maintain a written record of the inspection and any action resulting from the inspection.

Semiannual

- Inspect every 6 months all components that are not subject to wear or plugging, including structural components, housing, ducts and hoods.

If leaks or abnormal conditions are detected the appropriate measures for remediation will be implemented within eight (8) hours. Maintain a written record of the inspection and any action resulting from the inspection.

Record Keeping and Reporting

Maintenance and inspection records will be kept for five years and available upon request.

Quality Control

- The filter equipment will be operated and maintained according to the manufacturers recommendations.
- An adequate inventory of spare parts shall be kept.

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 28

Associated Equipment

Associated Emission Unit ID Numbers (if multiple units vent thru this EP): 28

Emissions Control Equipment ID Number: CE 28

Emissions Control Equipment Description: Baghouse

Emission Unit vented through this Emission Point: 28

Emission Unit Description: Woodworking Operations

Raw Material/Fuel: Wood

Rated Capacity: 3048 Mcf/hr

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity

Emission Limit(s): 40%⁽¹⁾

Authority for Requirement: Iowa DNR Construction Permit 92-A-583-S2
567 IAC 23.3(2)"d"

⁽¹⁾ An exceedance of the indicator opacity of (no visible emissions) will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: PM₁₀

Emission Limit(s): 0.32 lb/hr

Authority for Requirement: Iowa DNR Construction Permit 92-A-583-S2

Pollutant: Particulate Matter

Emission Limit(s): 3.05 lb./hr, 0.1 gr./dscf

Authority for Requirement: Iowa DNR Construction Permit 92-A-583-S2
567 IAC 23.3(2)"a"

Emission Point Characteristics

This emission point shall conform to the conditions listed below.

Stack Height (feet): 25

Stack Diameter (inches): 48 x 48

Stack Exhaust Flow Rate (scfm): 50,800

Stack Temperature (°F): Ambient

Discharge Style: Horizontal

Authority for Requirement: Iowa DNR Construction Permit 92-A-583-S2

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

The stack test for EP 19 will satisfy the periodic monitoring stack test requirements for this emission point.

Agency Approved Operation & Maintenance Plan Required? Yes ☒ No ☐

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Compliance Assurance Monitoring (CAM) Plan Required? Yes ☐ No ☒

Baghouse Agency Operation & Maintenance Plan

The key element of the material outlined below is the facilities willingness to use no visible emissions as an action level for taking corrective measures. If this had not been the case, further monitoring techniques may be requested. Examples of monitoring techniques which are used to evaluate baghouse performance may be found in the compilation named "Baghouse Periodic Monitoring Literature Review" (File Name bag_lit.doc). This document is a compilation of guidance from APTI training courses and other sources on ways to monitor baghouse performance.

The following baghouse parameters should be considered by the permit reviewer when determining what is monitored and the frequency.

Baghouse Parameters

Baghouse type: ☒ Pulse Jet ☐ Reverse Air ☐ Shaker

Material handled: Wood

Moisture problems possible: ☐ Yes ☒ No

Material corrosive: ☐ Yes ☒ No

If yes, are acid resistant bags in use: ☐ Yes ☐ No

Operating temperature (°F): Ambient

Monitoring Guidelines

The facility makes a commitment to take timely corrective action during periods of excursion where the indicators are out of range. A corrective action may include an investigation of the reason for the excursion, evaluation of the situation and necessary follow-up action to return operation within the indicator range. An excursion is determined by the averaged discrete data point over a period of time. An excursion does not necessarily indicate a violation of an applicable requirement. If the corrective action measures fail to return the indicators to the

appropriate range, the facility will report the exceedance to the department and conduct source testing within 90 days of the exceedance to demonstrate compliance with applicable requirements. If the test demonstrates compliance with emission limits then new indicator ranges must be set for monitoring and the new ranges must be incorporated in the operating permit. If the test demonstrates noncompliance with emission limits, then the facility, within 60 days, proposes a schedule to implement corrective action to bring the source into compliance and demonstrate compliance.

General

Periodic Monitoring is not required during periods of time greater than one day in which the source does not operate.

Weekly

- Visible emissions shall be observed on a weekly basis to ensure no visible emissions occur during the material handling operation of the unit. If visible emissions are observed this would be an excursion not a violation, and corrective action will be taken as soon as possible, but no later than 8 hours. If corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required. If an opacity (>40 %) is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If weather conditions prevent the observer from conducting an observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake readings at approximately 2 hour intervals throughout the day. If unsuccessful that day due to weather, an observation shall be made the following day.
- Check and document the baghouse pressure drop. If the pressure drop falls out of the normal operating range, specified by the manufacturer, corrective action will be taken within 8 hours to return the pressure drop to normal.

Maintain a written record of the observation and any action resulting from the inspection.

Monthly

- Check the cleaning sequence of the baghouse.
- Pulse jet baghouse - check the air delivery system
- Check the hopper functions and performance.

If leaks or abnormal conditions are detected the appropriate measures for remediation will be implemented within eight (8) hours. Maintain a written record of the inspection and any action resulting from the inspection.

Quarterly

- Thoroughly inspect bags for leaks and wear. (Look for obvious holes or tears in the bags.)
- If leaks or abnormal conditions are detected the appropriate measures for remediation will be implemented within eight (8) hours. Bag replacement should be documented by identifying the date, time and location of the bag in relationship to the other bags. The location should be identified on an overhead drawing of the bag layout in the baghouse. Maintain a written record of the inspection and any action resulting from the inspection.

Semiannual

- Inspect every 6 months all components that are not subject to wear or plugging, including structural components, housing, ducts and hoods.

If leaks or abnormal conditions are detected the appropriate measures for remediation will be implemented within eight (8) hours. Maintain a written record of the inspection and any action resulting from the inspection.

Record Keeping and Reporting

Maintenance and inspection records will be kept for five years and available upon request.

Quality Control

- The filter equipment will be operated and maintained according to the manufacturers recommendations.
- An adequate inventory of spare parts shall be kept.

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 29

Associated Equipment

Associated Emission Unit ID Number: 29
Emissions Control Equipment ID Number: CE 29
Emissions Control Equipment Description: Dry Filters

Emission Unit vented through this Emission Point: 29
Emission Unit Description: Paint Booth
Raw Material/Fuel: Paint and Thinner
Rated Capacity: 7.5 gal./hr

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit(s): 40%⁽¹⁾
Authority for Requirement: Iowa DNR Construction Permit 92-A-596-S6
567 IAC 23.3(2)"d"

⁽¹⁾ An exceedance of the indicator opacity of (no visible emissions) will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: PM-10
Emission Limit(s): 0.35 lb/hr
Authority for Requirement: Iowa DNR Construction Permit 92-A-596-S6

Pollutant: Particulate Matter
Emission Limit(s): 0.01 gr./dscf
Authority for Requirement: Iowa DNR Construction Permit 92-A-596-S6
567 IAC 23.4(13)

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): 164.0 Tons/yr⁽³⁾

Authority for Requirement: Iowa DNR Construction Permit 92-A-596-S6

⁽³⁾ Bubble limit to be a synthetic minor for PSD. This is a bubble limit set on EU 29, EU 31, EU 32, EU 33 and EU 34. The limit was set through a netting process from 1987, revised in 1992, February 2000, and December 2002. The revision in December 2002 was eliminating EU 35 and EU 38 from the bubble limit due to the reconstruction and relocation of the entire booth. EU 35 and EU 38 were determined to be with other emission units (EU 37, EU 68 and EU 110) under one project (02-610) and limited to 39.4 tpy.

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

NESHAP Applicability

1. This emission unit shall comply with all applicable requirements from 40 CFR Part 63, Subpart MMMM, NESHAP for Surface Coating of Miscellaneous Metal Parts & Products.

Authority for Requirement: 567 IAC 23.1(4)"cm"

Process Throughput

1. Only one (1) paint spray gun with the maximum spray capacity equal to or less than 7.5 gal/hr shall be operated in this booth at one time.

Reporting and Recordkeeping:

All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.

1. The facility shall keep records of the amount of material consumed in emission units (EU 29, EU 31, EU 32, EU 33 and EU 34) on a daily basis.
2. Record VOC and solids content in pounds per gallon for each painting material used in the booth.
3. The facility shall keep records on a rolling 12-month basis the amount of VOCs consumed by the emission units (EU 29, EU 31, EU 32, EU 33 and EU 34).
4. The MSDS of each material used at the facility shall be kept on site and available for inspection by the IDNR.

Authority for Requirement: Iowa DNR Construction Permit 92-A-596-S6

Emission Point Characteristics

This emission point shall conform to the conditions listed below.

Stack Height (feet): 55

Stack Diameter (inches): 36

Stack Exhaust Flow Rate (scfm): 14,000

Stack Temperature (°F): ambient

Discharge Style: Vertical Unobstructed

Authority for Requirement: Iowa DNR Construction Permit 92-A-596-S6

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Stack Testing:

Pollutant - PM₁₀

1st Stack Test to be Completed by (date) - within first two years of permit term

Test Method - 40 CFR 51, Appendix M, 201A with 202

Authority for Requirement - 567 IAC 22.108(3)

Stack Testing:

Pollutant - Particulate Matter

1st Stack Test to be Completed by (date) - within first two years of permit term

Test Method - Iowa Compliance Sampling Manual Method 5

Authority for Requirement - 567 IAC 22.108(3)

The owner of this equipment or the owner's authorized agent shall provide written notice to the Director, not less than 30 days before a required stack test or performance evaluation of a continuous emission monitor. Results of the test shall be submitted in writing to the Director in the form of a comprehensive report within 6 weeks of the completion of the testing. 567 IAC 25.1(7)

Agency Approved Operation & Maintenance Plan Required?

Yes ☒ No ☐

Facility Maintained Operation & Maintenance Plan Required?

Yes ☐ No ☒

Compliance Assurance Monitoring (CAM) Plan Required?

Yes ☐ No ☒

Paint Booth Agency Operation & Maintenance Plan

Weekly

- Inspect the paint booth system for conditions that reduce the operating efficiency of the collection system. This will include a visual inspection of the condition of the filter material.
- Maintain a written record of the observation and any action resulting from the inspection.

Record Keeping and Reporting

Maintenance and inspection records will be kept for five years and available upon request.

Quality Control

- The filter equipment will be operated and maintained according to the manufacturers recommendations.

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 30

Associated Equipment

Associated Emission Unit ID Number: 30

Emissions Control Equipment ID Number: CE 30A and CE 30B

Emissions Control Equipment Description: Cyclone and Baghouse

Emission Unit vented through this Emission Point: 30

Emission Unit Description: Woodworking Operations

Raw Material/Fuel: Wood

Rated Capacity: 2400 Mcf/hr

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity

Emission Limit(s): 40%⁽¹⁾

Authority for Requirement: Iowa DNR Construction Permit 92-A-584-S2
567 IAC 23.3(2)"d"

⁽¹⁾ An exceedance of the indicator opacity of (no visible emissions) will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: PM₁₀

Emission Limit(s): 0.72 LB/hr

Authority for Requirement: Iowa DNR Construction Permit 92-A-584-S2

Pollutant: Particulate Matter

Emission Limit(s): 2.7 lb./hr, 0.1 gr./dscf

Authority for Requirement: Iowa DNR Construction Permit 92-A-584-S2
567 IAC 23.3(2)"a"

Emission Point Characteristics

This emission point shall conform to the conditions listed below.

Stack Height (feet): 25

Stack Diameter (inches): 48 x 48

Stack Exhaust Flow Rate (scfm): 54,000

Stack Temperature (°F): Ambient

Discharge Style: Horizontal

Authority for Requirement: Iowa DNR Construction Permit 92-A-584-S2

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Stack Testing:

Pollutant - Particulate Matter

1st Stack Test to be Completed by (date) - within first two years of permit term

Test Method - Iowa Compliance Sampling Manual Method 5

Authority for Requirement - 567 IAC 22.108(3)

The owner of this equipment or the owner's authorized agent shall provide written notice to the Director, not less than 30 days before a required stack test or performance evaluation of a continuous emission monitor. Results of the test shall be submitted in writing to the Director in the form of a comprehensive report within 6 weeks of the completion of the testing. 567 IAC 25.1(7)

Agency Approved Operation & Maintenance Plan Required? Yes ☒ No ☐

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Compliance Assurance Monitoring (CAM) Plan Required? Yes ☐ No ☒

Baghouse Agency Operation & Maintenance Plan

The key element of the material outlined below is the facilities willingness to use no visible emissions as an action level for taking corrective measures. If this had not been the case, further monitoring techniques may be requested. Examples of monitoring techniques which are used to evaluate baghouse performance may be found in the compilation named "Baghouse Periodic Monitoring Literature Review" (File Name bag_lit.doc). This document is a compilation of guidance from APTI training courses and other sources on ways to monitor baghouse performance.

The following baghouse parameters should be considered by the permit reviewer when determining what is monitored and the frequency.

Baghouse Parameters

Baghouse type: ☒ Pulse Jet ☐ Reverse Air ☐ Shaker

Material handled: Wood

Moisture problems possible: ☐ Yes ☒ No

Material corrosive: ☐ Yes ☒ No

If yes, are acid resistant bags in use: ☐ Yes ☐ No

Operating temperature (°F): Ambient

Monitoring Guidelines

The facility makes a commitment to take timely corrective action during periods of excursion where the indicators are out of range. A corrective action may include an investigation of the reason for the excursion, evaluation of the situation and necessary follow-up action to return operation within the indicator range. An excursion is determined by the averaged discrete data point over a period of time. An excursion does not necessarily indicate a violation of an applicable requirement. If the corrective action measures fail to return the indicators to the appropriate range, the facility will report the exceedance to the department and conduct source testing within 90 days of the exceedance to demonstrate compliance with applicable requirements. If the test demonstrates compliance with emission limits then new indicator ranges must be set for monitoring and the new ranges must be incorporated in the operating permit. If the test demonstrates noncompliance with emission limits, then the facility, within 60 days, proposes a schedule to implement corrective action to bring the source into compliance and demonstrate compliance.

General

Periodic Monitoring is not required during periods of time greater than one day in which the source does not operate.

Weekly

- Visible emissions shall be observed on a weekly basis to ensure no visible emissions occur during the material handling operation of the unit. If visible emissions are observed this would be an excursion not a violation, and corrective action will be taken as soon as possible, but no later than 8 hours. If corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required. If an opacity (>40 %) is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If weather conditions prevent the observer from conducting an observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake readings at approximately 2 hour intervals throughout the day. If unsuccessful that day due to weather, an observation shall be made the following day.
- Check and document the baghouse pressure drop. If the pressure drop falls out of the normal operating range, specified by the manufacturer, corrective action will be taken within 8 hours to return the pressure drop to normal.

Maintain a written record of the observation and any action resulting from the inspection.

Monthly

- Check the cleaning sequence of the baghouse.

- Pulse jet baghouse - check the air delivery system
- Check the hopper functions and performance.

If leaks or abnormal conditions are detected the appropriate measures for remediation will be implemented within eight (8) hours. Maintain a written record of the inspection and any action resulting from the inspection.

Quarterly

- Thoroughly inspect bags for leaks and wear. (Look for obvious holes or tears in the bags.)

If leaks or abnormal conditions are detected the appropriate measures for remediation will be implemented within eight (8) hours. Bag replacement should be documented by identifying the date, time and location of the bag in relationship to the other bags. The location should be identified on an overhead drawing of the bag layout in the baghouse. Maintain a written record of the inspection and any action resulting from the inspection.

Semiannual

- Inspect every 6 months all components that are not subject to wear or plugging, including structural components, housing, ducts and hoods.

If leaks or abnormal conditions are detected the appropriate measures for remediation will be implemented within eight (8) hours. Maintain a written record of the inspection and any action resulting from the inspection.

Record Keeping and Reporting

Maintenance and inspection records will be kept for five years and available upon request.

Quality Control

- The filter equipment will be operated and maintained according to the manufacturers recommendations.
- An adequate inventory of spare parts shall be kept.

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 31

Associated Equipment

Associated Emission Unit ID Number: 31
Emissions Control Equipment ID Number: CE 31
Emissions Control Equipment Description: Dry Filter

Emission Unit vented through this Emission Point: 31
Emission Unit Description: Vertical Line Paint Booth
Raw Material/Fuel: Paint
Rated Capacity: 2.4 gal./hr

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit(s): 40%⁽¹⁾
Authority for Requirement: Iowa DNR Construction Permit 92-A-602-S5
567 IAC 23.3(2)"d"

⁽¹⁾ An exceedance of the indicator opacity of (no visible emissions) will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: PM-10
Emission Limit(s): 0.27 lb/hr
Authority for Requirement: Iowa DNR Construction Permit 92-A-602-S5

Pollutant: Particulate Matter
Emission Limit(s): 0.01 gr./dscf
Authority for Requirement: Iowa DNR Construction Permit 92-A-602-S5
567 IAC 23.4(13)

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): 164.0 Tons/yr⁽²⁾

Authority for Requirement: Iowa DNR Construction Permit 92-A-602-S5

⁽²⁾ Bubble limit to be a synthetic minor for PSD. This is a bubble limit set on EU 29, EU 31, EU 32, EU 33 and EU 34. The limit was set through a netting process from 1987, revised in 1992, February 2000, and December 2002. The revision in December 2002 was eliminating EU 35 and EU 38 from the bubble limit due to the reconstruction and relocation of the entire booth. EU 35 and EU 38 were determined to be with other emission units (EU 37, EU 68 and EU 110) under one project (02-610) and limited to 39.4 tpy.

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

NESHAP Applicability

- 1) This emission unit shall comply with all applicable requirements from 40 CFR Part 63, Subpart M, NESHAP for Surface Coating of Miscellaneous Metal Parts & Products.

Authority for Requirement: IDNR Construction Permit 92-A-602-S5
567 IAC 23.1(4)"cm"

Reporting and Recordkeeping

All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.

1. The facility shall keep records of the amount of material consumed in emission units (EU 29, EU 31, EU 32, EU 33 and EU 34) on a daily basis.
2. Record VOCs and solids content in pounds per gallon for each painting material used in the booth.
3. The facility shall keep records on a rolling 12-month basis the amount of VOCs consumed by the emission units (EU 29, EU 31, EU 32, EU 33 and EU 34).
4. The MSDS of each material used at the facility shall be kept on site and available for inspection by the IDNR.

Authority for Requirement: Iowa DNR Construction Permit 92-A-602-S5

Emission Point Characteristics

This emission point shall conform to the conditions listed below.

Stack Height (feet): 52

Stack Diameter (inches): 34

Stack Exhaust Flow Rate (scfm): 14,000

Stack Temperature (°F): ambient

Vertical, Unobstructed Discharge Required: Vertical Unobstructed

Authority for Requirement: Iowa DNR Construction Permit 92-A-602-S5

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☒ No ☐

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Compliance Assurance Monitoring (CAM) Plan Required? Yes ☐ No ☒

Agency Paint Booth Operations and Maintenance Plan

Weekly

- Inspect the paint booth system for conditions that reduce the operating efficiency of the collection system. This will include a visual inspection of the condition of the filter material.
- Maintain a written record of the observation and any action resulting from the inspection.

Record Keeping and Reporting

Maintenance and inspection records will be kept for five years and available upon request.

Quality Control

- The filter equipment will be operated and maintained according to the manufacturers recommendations.

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 32

Associated Equipment

Associated Emission Unit ID Number: 32
Emissions Control Equipment ID Number: CE 32
Emissions Control Equipment Description: Dry Filter

Emission Unit vented through this Emission Point: 32
Emission Unit Description: Paint Booth
Raw Material/Fuel: Paint
Rated Capacity: 2.4 gal./hr

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit(s): 40%⁽¹⁾
Authority for Requirement: Iowa DNR Construction Permit 92-A-603-S5
567 IAC 23.3(2)"d"

⁽¹⁾ An exceedance of the indicator opacity of (no visible emissions) will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: PM-10
Emission Limit(s): 0.27 lb/hr
Authority for Requirement: Iowa DNR Construction Permit 92-A-603-S5

Pollutant: Particulate Matter
Emission Limit(s): 0.01 gr./dscf
Authority for Requirement: Iowa DNR Construction Permit 92-A-603-S5
567 IAC 23.4(13)

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): 164 Tons/yr⁽²⁾

Authority for Requirement: Iowa DNR Construction Permit 92-A-603-S5

⁽²⁾ Bubble limit to be a synthetic minor for PSD. This is a bubble limit set on EU 29, EU 31, EU 32, EU 33 and EU 34. The limit was set through a netting process from 1987, revised in 1992, February 2000, and December 2002. The revision in December 2002 was eliminating EU 35 and EU 38 from the bubble limit due to the reconstruction and relocation of the entire booth. EU 35 and EU 38 were determined to be with other emission units (EU 37, EU 68 and EU 110) under one project (02-610) and limited to 39.4 tpy.

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

NESHAP Applicability

1. This emission unit shall comply with all applicable requirements from 40 CFR Part 63, Subpart M, NESHAP for Surface Coating of Miscellaneous Metal Parts & Products.

Authority for Requirement: IDNR Construction Permit 92-A-603-S5
567 IAC 23.1(4)"cm"

Reporting and Recordkeeping

All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR.

Records shall be legible and maintained in an orderly manner.

1. The facility shall keep records of the amount of material consumed in emission units (EU 29, EU 31, EU 32, EU 33 and EU 34) on a daily basis.
2. Record VOCs and solids content in pounds per gallon for each painting material used in the booth.
3. The facility shall keep records on a rolling 12-month basis the amount of VOCs consumed by the emission units (EU 29, EU 31, EU 32, EU 33 and EU 34).
4. The MSDS of each material used at the facility shall be kept on site and available for inspection by the IDNR.

Authority for Requirement: Iowa DNR Construction Permit 92-A-603-S5

Emission Point Characteristics

This emission point shall conform to the conditions listed below.

Stack Height (feet): 52

Stack Diameter (inches): 34

Stack Exhaust Flow Rate (scfm): 14,000

Stack Temperature (°F): ambient

Discharge Style: Vertical Unobstructed

Authority for Requirement: Iowa DNR Construction Permit 92-A-603-S5

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☒ No ☐

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Compliance Assurance Monitoring (CAM) Plan Required? Yes ☐ No ☒

Agency Paint Booth Operation and Maintenance Plan

Weekly

- Inspect the paint booth system for conditions that reduce the operating efficiency of the collection system. This will include a visual inspection of the condition of the filter material.
- Maintain a written record of the observation and any action resulting from the inspection.

Record Keeping and Reporting

Maintenance and inspection records will be kept for five years and available upon request.

Quality Control

- The filter equipment will be operated and maintained according to the manufacturers recommendations.

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 33

Associated Equipment

Associated Emission Unit ID Number: 33
Emissions Control Equipment ID Number: CE 33
Emissions Control Equipment Description: Dry Filter

Emission Unit vented through this Emission Point: 33
Emission Unit Description: Paint Booth
Raw Material/Fuel: Paint
Rated Capacity: 5.3 gal./hr

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit(s): 40%⁽¹⁾
Authority for Requirement: Iowa DNR Construction Permit 92-A-604-S6
567 IAC 23.3(2)"d"

⁽¹⁾ An exceedance of the indicator opacity of (no visible emissions) will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: PM-10
Emission Limit(s): 0.27 lb/hr
Authority for Requirement: Iowa DNR Construction Permit 92-A-604-S6

Pollutant: Particulate Matter
Emission Limit(s): 0.01 gr./dscf
Authority for Requirement: Iowa DNR Construction Permit 92-A-604-S6
567 IAC 23.4(13)

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): 164 Tons/yr⁽²⁾

Authority for Requirement: Iowa DNR Construction Permit 92-A-604-S6

⁽²⁾ Bubble limit to be a synthetic minor for PSD. This is a bubble limit set on EU 29, EU 31, EU 32, EU 33 and EU 34. The limit was set through a netting process from 1987, revised in 1992, February 2000, and December 2002. The revision in December 2002 was eliminating EU 35 and EU 38 from the bubble limit due to the reconstruction and relocation of the entire booth. EU 35 and EU 38 were determined to be with other emission units (EU 37, EU 68 and EU 110) under one project (02-610) and limited to 39.4 tpy.

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

NESHAP Applicability

1. This emission unit shall comply with all applicable requirements from 40 CFR Part 63, Subpart MMMM, NESHAP for Surface Coating of Miscellaneous Metal Parts & Products.

Authority for Requirement: IDNR Construction Permit 92-A-604-S6
567 IAC 23.1(4)"cm"

Reporting and Recordkeeping

All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.

1. The facility shall keep records of the amount of material consumed in emission units (EU 29, EU 31, EU 32, EU 33 and EU 34) on a daily basis.
2. Record VOCs and solids content in pounds per gallon for each painting material used in the booth.
3. The facility shall keep records on a rolling 12-month basis the amount of VOCs consumed by the emission units (EU 29, EU 31, EU 32, EU 33 and EU 34).
4. The MSDS of each material used at the facility shall be kept on site and available for inspection by the IDNR.

Authority for Requirement: Iowa DNR Construction Permit 92-A-604-S6

Emission Point Characteristics

This emission point shall conform to the conditions listed below.

Stack Height (feet): 52

Stack Diameter (inches): 34

Stack Exhaust Flow Rate (scfm): 14,000

Stack Temperature (°F): Ambient

Discharge Style: Vertical Unobstructed

Authority for Requirement: Iowa DNR Construction Permit 92-A-604-S6

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

The stack test for EP 34 will satisfy the periodic monitoring stack test requirements for this emission point.

Agency Approved Operation & Maintenance Plan Required? Yes ☒ No ☐

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Compliance Assurance Monitoring (CAM) Plan Required? Yes ☐ No ☒

Agency Paint Booth Operation and Maintenance Plan

Weekly

- Inspect the paint booth system for conditions that reduce the operating efficiency of the collection system. This will include a visual inspection of the condition of the filter material.
- Maintain a written record of the observation and any action resulting from the inspection.

Record Keeping and Reporting

Maintenance and inspection records will be kept for five years and available upon request.

Quality Control

- The filter equipment will be operated and maintained according to the manufacturers recommendations.

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 34

Associated Equipment

Associated Emission Unit ID Number: 34
Emissions Control Equipment ID Number: CE 34
Emissions Control Equipment Description: Dry Filter

Emission Unit vented through this Emission Point: 34
Emission Unit Description: Paint Booth
Raw Material/Fuel: Paint
Rated Capacity: 5.3 gal./hr

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit(s): 40%⁽¹⁾
Authority for Requirement: Iowa DNR Construction Permit 92-A-605-S6
567 IAC 23.3(2)"d"

⁽¹⁾ An exceedance of the indicator opacity of (no visible emissions) will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: PM-10
Emission Limit(s): 0.27 lb/hr
Authority for Requirement: Iowa DNR Construction Permit 92-A-605-S6

Pollutant: Particulate Matter
Emission Limit(s): 0.01 gr./dscf
Authority for Requirement: Iowa DNR Construction Permit 92-A-605-S6
567 IAC 23.4(13)

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): 164 Tons/yr⁽²⁾

Authority for Requirement: Iowa DNR Construction Permit 92-A-605-S6

⁽²⁾ Bubble limit to be a synthetic minor for PSD. This is a bubble limit set on EU 29, EU 31, EU 32, EU 33 and EU 34. The limit was set through a netting process from 1987, revised in 1992, February 2000, and December 2002. The revision in December 2002 was eliminating EU 35 and EU 38 from the bubble limit due to the reconstruction and relocation of the entire booth. EU 35 and EU 38 were determined to be with other emission units (EU 37, EU 68 and EU 110) under one project (02-610) and limited to 39.4 tpy.

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

NESHAP Applicability

- 1) This emission unit shall comply with all applicable requirements from 40 CFR Part 63, Subpart M, NESHAP for Surface Coating of Miscellaneous Metal Parts & Products.

Authority for Requirement: IDNR Construction Permit 92-A-605-S6
567 IAC 23.1(4)"cm"

Reporting and Recordkeeping

All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.

1. The facility shall keep records of the amount of material consumed in emission units (EU 29, EU 31, EU 32, EU 33 and EU 34) on a daily basis.
2. Record VOCs and solids content in pounds per gallon for each painting material used in the booth.
3. The facility shall keep records on a rolling 12-month basis the amount of VOCs consumed by the emission units (EU 29, EU 31, EU 32, EU 33 and EU 34).
4. The MSDS of each material used at the facility shall be kept on site and available for inspection by the IDNR.

Authority for Requirement: Iowa DNR Construction Permit 92-A-605-S6

Emission Point Characteristics

This emission point shall conform to the conditions listed below.

Stack Height (feet): 52

Stack Diameter (inches): 34

Stack Exhaust Flow Rate (scfm): 14,000

Stack Temperature (°F): ambient

Discharge Style: Vertical Unobstructed

Authority for Requirement: Iowa DNR Construction Permit 92-A-605-S6

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Stack Testing:

Pollutant - PM₁₀

1st Stack Test to be Completed by (date) - within first two years of permit term

Test Method - 40 CFR 51, Appendix M, 201A with 202

Authority for Requirement - 567 IAC 22.108(3)

Stack Testing:

Pollutant - Particulate Matter

1st Stack Test to be Completed by (date) - within first two years of permit term

Test Method - Iowa Compliance Sampling Manual Method 5

Authority for Requirement - 567 IAC 22.108(3)

Agency Approved Operation & Maintenance Plan Required? Yes ☒ No ☐

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Compliance Assurance Monitoring (CAM) Plan Required? Yes ☐ No ☒

Agency Paint Booth Operation and Maintenance Plan

Weekly

- Inspect the paint booth system for conditions that reduce the operating efficiency of the collection system. This will include a visual inspection of the condition of the filter material.
- Maintain a written record of the observation and any action resulting from the inspection.

Record Keeping and Reporting

Maintenance and inspection records will be kept for five years and available upon request.

Quality Control

- The filter equipment will be operated and maintained according to the manufacturers recommendations.

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 35

Associated Equipment

Associated Emission Unit ID Number: 35
Emissions Control Equipment ID Number: CE 35
Emissions Control Equipment Description: Dry Filter

Emission Unit vented through this Emission Point: 35
Emission Unit Description: Paint Booth
Raw Material/Fuel: Paint
Rated Capacity: 5.0 gal./hr

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit(s): 40%⁽¹⁾
Authority for Requirement: Iowa DNR Construction Permit 92-A-606-S7
567 IAC 23.3(2)"d"

⁽¹⁾ An exceedance of the indicator opacity of (no visible emissions) will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: PM-10
Emission Limit(s): 0.08 lb/hr
Authority for Requirement: Iowa DNR Construction Permit 92-A-606-S7

Pollutant: Particulate Matter
Emission Limit(s): 0.01 gr./dscf
Authority for Requirement: Iowa DNR Construction Permit 92-A-606-S7
567 IAC 23.4(13)

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): 60.0 Tons/yr⁽²⁾

Authority for Requirement: Iowa DNR Construction Permit 92-A-606-S7

⁽²⁾ Bubble Limit to be a Synthetic Minor for PSD. This is a bubble limit set on EU-35, EU-37, EU-38, EU-68, and EU-110. A limit of 39.4 tpy was set during project number 02-610 to be a synthetic minor for PSD in December 2002, when emission units EU-35, EU-37, EU-38 and EU 68 were all relocated and replaced (including spray guns). The limit was increased to 60 tpy during project number 04-224 in June 2005 through re-evaluating the netting in the contemporaneous period used for project 02-610.

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

NESHAP Applicability

1. This emission unit shall comply with all applicable requirements from 40 CFR Part 63, Subpart M, NESHAP for Surface Coating of Miscellaneous Metal Parts & Products.

Authority for Requirement: IDNR Construction Permit 92-A-606-S7
567 IAC 23.1(4)"cm"

Process Throughput

1. The horizontal line paint spray booth is limited to using a maximum of 2 spray guns simultaneously within this booth.

Reporting and Recordkeeping

All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.

1. The facility shall keep records of the amount of material consumed by quantifying the amount of gallons used in emission units (EU-35, EU-37, EU-38, EU-68, and EU-110) on a daily basis.
2. Record VOCs and solids content in pounds per gallon for each painting material used in the booth.
3. The facility shall keep records on a rolling 12-month basis in the amount of VOCs emitted by the emission units (EU-35, EU-37, EU-38, EU-68, and EU-110) in tons per year.
4. The MSDS of each material used at the facility shall be kept on-site and available for inspection by the IDNR.

Authority for Requirement: Iowa DNR Construction Permit 92-A-606-S7

Emission Point Characteristics

This emission point shall conform to the conditions listed below.

Stack Height (feet): 39

Stack Diameter (inches): 18

Stack Exhaust Flow Rate (scfm): 2,000

Stack Temperature (°F): ambient

Discharge Style: Vertical Unobstructed

Authority for Requirement: Iowa DNR Construction Permit 92-A-606-S7

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☒ No ☐

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Compliance Assurance Monitoring (CAM) Plan Required? Yes ☐ No ☒

Agency Paint Booth Operation and Maintenance Plan

Weekly

- Inspect the paint booth system for conditions that reduce the operating efficiency of the collection system. This will include a visual inspection of the condition of the filter material.
- Maintain a written record of the observation and any action resulting from the inspection.

Record Keeping and Reporting

Maintenance and inspection records will be kept for five years and available upon request.

Quality Control

- The filter equipment will be operated and maintained according to the manufacturers recommendations.

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 37

Associated Equipment

Associated Emission Unit ID Number: 37
Emissions Control Equipment ID Number: 37
Emissions Control Equipment Description: Dry Filter

Emission Unit vented through this Emission Point: 37
Emission Unit Description: Rotary Atomizer Paint Spray System
Raw Material/Fuel: Paint
Rated Capacity: 20.0 gal./hr

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity

Emission Limits: 40 %⁽¹⁾

Authority for Requirement: Iowa DNR Construction Permit 92-A-644-S7
567 IAC 23.3(2)"d"

- (1) An exceedance of the indicator opacity of (no visible emissions) will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: PM₁₀

Emission Limit(s): 0.09 lb/hr

Authority for Requirement: Iowa DNR Construction Permit 92-A-644-S7

Pollutant: Particulate Matter

Emission Limit(s): 0.01 gr./dscf

Authority for Requirement: Iowa DNR Construction Permit 92-A-644-S7
567 IAC 23.4(13)

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): 60 Tons/yr⁽²⁾

Authority for Requirement: Iowa DNR Construction Permit 92-A-644-S7

⁽²⁾Bubble Limit to be a Synthetic Minor for PSD. This is a bubble limit set on EU-35, EU-37, EU-38, EU-68, and EU-110. A limit of 39.4 tpy was set during project number 02-610 to be a synthetic minor for PSD in December 2002, when emission units EU-35, EU-37, EU-38 and EU 68 were all relocated and replaced (including spray guns). The limit was increased to 60 tpy during project number 04-224 in June 2005 through re-evaluating the netting in the contemporaneous period used for project 02-610.

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

NESHAP Applicability

1. This emission unit shall comply with all applicable requirements from 40 CFR Part 63, Subpart M, NESHAP for Surface Coating of Miscellaneous Metal Parts & Products.

Authority for Requirement: IDNR Construction Permit 92-A-644-S7
567 IAC 23.1(4)"cm"

Process Throughput

1. The rotary atomizer paint spray system is limited to using a maximum of 4 spray guns simultaneously within this booth.

Reporting and Recordkeeping

All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.

1. The facility shall keep records of the amount of material consumed by quantifying the amount of gallons used in emission units (EU-35, EU-37, EU-38, EU-68, and EU-110) on a daily basis.
2. Record VOCs and solids content in pounds per gallon for each painting material used in the booth.
3. The facility shall keep records on a rolling 12-month basis in the amount of VOCs emitted by the emission units (EU-35, EU-37, EU-38, EU-68, and EU-110) in tons per year.

4. The MSDS of each material used at the facility shall be kept on-site and available for inspection by the IDNR.

Authority for Requirement: Iowa DNR Construction Permit 92-A-644-S7

Emission Point Characteristics

This emission point shall conform to the conditions listed below.

Stack Height (feet): 39

Stack Diameter (inches): 18

Stack Exhaust Flow Rate (scfm): 3,900

Stack Temperature (°F): ambient

Discharge Style: Vertical Unobstructed

Authority for Requirement: Iowa DNR Construction Permit 92-A-644-S7

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☒ No ☐

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Compliance Assurance Monitoring (CAM) Plan Required? Yes ☐ No ☒

Agency Paint Booth Operation and Maintenance Plan

Weekly

- Inspect the paint booth system for conditions that reduce the operating efficiency of the collection system. This will include a visual inspection of the condition of the filter material.
- Maintain a written record of the observation and any action resulting from the inspection.

Record Keeping and Reporting

Maintenance and inspection records will be kept for five years and available upon request.

Quality Control

- The filter equipment will be operated and maintained according to the manufacturers recommendations.

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 38

Associated Equipment

Associated Emission Unit ID Number: 38
Emissions Control Equipment ID Number: 38
Emissions Control Equipment Description: Dry Filter

Emission Unit vented through this Emission Point: 38
Emission Unit Description: Horizontal Line Paint Spray Booth
Raw Material/Fuel: Paint
Rated Capacity: 15.0 gal./hr

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity

Emission Limits: 40 %⁽¹⁾

Authority for Requirement: Iowa DNR Construction Permit 92-A-608-S7
567 IAC 23.3(2)"d"

⁽¹⁾ An exceedance of the indicator opacity of (no visible emissions) will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: PM-10

Emission Limit(s): 0.09 lb/hr

Authority for Requirement: Iowa DNR Construction Permit 92-A-608-S7

Pollutant: Particulate Matter

Emission Limit(s): 0.01 gr./dscf

Authority for Requirement: Iowa DNR Construction Permit 92-A-608-S7
567 IAC 23.4(13)

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): 60.0 Tons/yr⁽²⁾

Authority for Requirement: Iowa DNR Construction Permit 92-A-608-S7

⁽²⁾ Bubble Limit to be a Synthetic Minor for PSD. This is a bubble limit set on EU-35, EU-37, EU-38, EU-68, and EU-110. A limit of 39.4 tpy was set during project number 02-610 to be a synthetic minor for PSD in December 2002, when emission units EU-35, EU-37, EU-38 and EU 68 were all relocated and replaced (including spray guns). The limit was increased to 60 tpy during project number 04-224 in June 2005 through re-evaluating the netting in the contemporaneous period used for project 02-610.

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

NESHAP Applicability

1. This emission unit shall comply with all applicable requirements from 40 CFR Part 63, Subpart M, NESHAP for Surface Coating of Miscellaneous Metal Parts & Products.

Authority for Requirement: IDNR Construction Permit 92-A-608-S7
567 IAC 23.1(4)"cm"

Process Throughput

1. The horizontal line paint spray booth is limited to using a maximum of 4 spray guns simultaneously within this booth.

Reporting and Recordkeeping

All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.

1. The facility shall keep records of the amount of material consumed by quantifying the amount of gallons used in emission units (EU-35, EU-37, EU-38, EU-68, and EU-110) on a daily basis.
2. Record VOCs and solids content in pounds per gallon for each painting material used in the booth.
3. The facility shall keep records on a rolling 12-month basis in the amount of VOCs emitted by the emission units (EU-35, EU-37, EU-38, EU-68, and EU-110) in tons per year.
4. The MSDS of each material used at the facility shall be kept on-site and available for inspection by the IDNR.

Authority for Requirement: Iowa DNR Construction Permit 92-A-608-S7

Emission Point Characteristics

This emission point shall conform to the conditions listed below.

Stack Height (feet): 39

Stack Diameter (inches): 18

Stack Exhaust Flow Rate (scfm): 3,900

Stack Temperature (°F): ambient

Discharge Style: Vertical Unobstructed

Authority for Requirement: Iowa DNR Construction Permit 92-A-608-S7

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☒ No ☐

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Compliance Assurance Monitoring (CAM) Plan Required? Yes ☐ No ☒

Agency Paint Booth Operation and Maintenance Plan

Weekly

- Inspect the paint booth system for conditions that reduce the operating efficiency of the collection system. This will include a visual inspection of the condition of the filter material.
- Maintain a written record of the observation and any action resulting from the inspection.

Record Keeping and Reporting

Maintenance and inspection records will be kept for five years and available upon request.

Quality Control

- The filter equipment will be operated and maintained according to the manufacturers recommendations.

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 39

Associated Equipment

Associated Emission Unit ID Number: 39

Emission Unit vented through this Emission Point: 39
Emission Unit Description: Hardware Paint Bake Oven
Raw Material/Fuel: Natural Gas
Rated Capacity: 0.53 MMBtu/hr

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity

Emission Limit(s): 40%

Authority for Requirement: Iowa DNR Construction Permit 92-A-587-S3
567 IAC 23.3(2)"d"

An exceedance of the indicator opacity of (no visible emissions) will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: PM₁₀

Emission Limit(s): 0.005 lb/hr

Authority for Requirement: Iowa DNR Construction Permit 92-A-587-S3

Pollutant: Particulate Matter

Emission Limit(s): 0.1 gr/dscf

Authority for Requirement: Iowa DNR Construction Permit 92-A-587-S3
567 IAC 23.3(2)"a"

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

NESHAP Applicability

- 1) This emission unit shall comply with all applicable requirements from 40 CFR Part 63, Subpart Mmmm, NESHAP for Surface Coating of Miscellaneous Metal Parts & Products and Subpart DDDDD, NESHAP for Commercial, Industrial, and Institutional Boilers and Process Heaters.

Authority for Requirement: IDNR Construction Permit 92-A-587-S3
567 IAC 23.1(4)"cm" and "dd"

Emission Point Characteristics

This emission point shall conform to the conditions listed below.

Stack Height (feet): 50

Stack Diameter (inches): 12

Stack Exhaust Flow Rate (scfm): 5500

Stack Temperature (°F): 500

Discharge Style: Vertical Unobstructed

Authority for Requirement: Iowa DNR Construction Permit 92-A-587-S3

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Compliance Assurance Monitoring (CAM) Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 40

Associated Equipment

Associated Emission Unit ID Numbers (if multiple units vent thru this EP): 40

Applicable Requirements

Emission Unit vented through this Emission Point: 40
Emission Unit Description: Vertical Line Dry-Off Oven
Raw Material/Fuel: Natural Gas
Rated Capacity: 3.68 MMBtu/hr

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity

Emission Limit(s): 40%⁽¹⁾

Authority for Requirement: Iowa DNR Construction Permit 92-A-588-S3
567 IAC 23.3(2)"d"

⁽¹⁾ An exceedance of the indicator opacity of (no visible emissions) will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: PM₁₀

Emission Limit(s): 0.03 lb/hr

Authority for Requirement: Iowa DNR Construction Permit 92-A-588-S3

Pollutant: Particulate Matter

Emission Limit(s): 0.1 gr/dscf

Authority for Requirement: Iowa DNR Construction Permit 92-A-588-S3
567 IAC 23.3(2)"a"

Pollutant: Volatile Organic Compound (VOC)

Emission Limit(s): 0.9 Tons/yr⁽²⁾

Authority for Requirement: Iowa DNR Construction Permit 92-A-588-S3

⁽²⁾ This is a bubble limit set on EU-40, EU-41, EU-42, EU-47, and EU-48. The limit was set through a netting process from 1987, revised in 1992 and now in February 2000.

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

NESHAP Applicability

1. This emission unit shall comply with all applicable requirements from 40 CFR Part 63, Subpart M, NESHAP for Surface Coating of Miscellaneous Metal Parts & Products and Subpart DDDDD, NESHAP for Commercial, Industrial, and Institutional Boilers and Process Heaters.

Authority for Requirement: IDNR Construction Permit 92-A-588-S3
567 IAC 23.1(4)"cm" and "dd"

Process Throughput

1. This source shall use only natural gas as the fuel source.

Reporting and Recordkeeping

All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.

1. The facility shall keep records of the type of fuel used in the source.

Authority for Requirement: Iowa DNR Construction Permit 92-A-588-S3

Emission Point Characteristics

This emission point shall conform to the conditions listed below.

Stack Height (feet): 50

Stack Diameter (inches): 16

Stack Exhaust Flow Rate (scfm): 3600

Stack Temperature (°F): 250

Discharge Style: Vertical Obstructed

Authority for Requirement: Iowa DNR Construction Permit 92-A-588-S3

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Compliance Assurance Monitoring (CAM) Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 41

Associated Equipment

Associated Emission Unit ID Numbers (if multiple units vent thru this EP): 41

Applicable Requirements

(If more than one emission unit vents through this emission point subdivide the applicable requirements by emission unit.)

Emission Unit vented through this Emission Point: 41

Emission Unit Description: Vertical Line Bake Oven

Raw Material/Fuel: Natural Gas

Rated Capacity: 6.3 MMBtu/hr

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity

Emission Limit(s): 40%⁽¹⁾

Authority for Requirement: Iowa DNR Construction Permit 92-A-589-S3
567 IAC 23.3(2)"d"

⁽¹⁾ An exceedance of the indicator opacity of (no visible emissions) will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: PM₁₀

Emission Limit(s): 0.06 lb/hr

Authority for Requirement: Iowa DNR Construction Permit 92-A-589-S3

Pollutant: Particulate Matter

Emission Limit(s): 0.1 gr/dscf

Authority for Requirement: Iowa DNR Construction Permit 92-A-589-S3
567 IAC 23.3(2)"a"

Pollutant: Volatile Organic Compound (VOC)

Emission Limit(s): 0.9 Tons/yr⁽²⁾

Authority for Requirement: Iowa DNR Construction Permit 92-A-589-S3

⁽²⁾ This is a bubble limit set on EU-40, EU-41, EU-42, EU-47, and EU-48. The limit was set through a netting process from 1987, revised in 1992 and now in February 2000.

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

NESHAP Applicability

1. This emission unit shall comply with all applicable requirements from 40 CFR Part 63, Subpart M, NESHAP for Surface Coating of Miscellaneous Metal Parts & Products and Subpart DDDDD, NESHAP for Commercial, Industrial, and Institutional Boilers and Process Heaters.

Authority for Requirement: IDNR Construction Permit 92-A-589-S3
567 IAC 23.1(4)"cm" and "dd"

Process Throughput

1. This source shall use only natural gas as the fuel source.

Reporting and Recordkeeping

All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.

1. The facility shall keep records of the type of fuel used in the source.

Authority for Requirement: Iowa DNR Construction Permit 92-A-589-S3

Emission Point Characteristics

This emission point shall conform to the conditions listed below.

Stack Height (feet): 56

Stack Diameter (inches): 26

Stack Exhaust Flow Rate (scfm): 1900

Stack Temperature (°F): 450

Discharge Style: Vertical Obstructed

Authority for Requirement: Iowa DNR Construction Permit 92-A-589-S3

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Compliance Assurance Monitoring (CAM) Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 42

Associated Equipment

Associated Emission Unit ID Numbers (if multiple units vent thru this EP): 42

Emission Unit vented through this Emission Point: 42

Emission Unit Description: Vertical Line Bake Oven

Raw Material/Fuel: Natural Gas

Rated Capacity: 6.3 MMBtu/hr

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity

Emission Limit(s): 40%⁽¹⁾

Authority for Requirement: Iowa DNR Construction Permit 92-A-590-S3
567 IAC 23.3(2)"d"

⁽¹⁾ An exceedance of the indicator opacity of (no visible emissions) will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: PM₁₀

Emission Limit(s): 0.06 lb/hr

Authority for Requirement: Iowa DNR Construction Permit 92-A-590-S3

Pollutant: Particulate Matter

Emission Limit(s): 0.1 gr/dscf

Authority for Requirement: Iowa DNR Construction Permit 92-A-590-S3
567 IAC 23.3(2)"a"

Pollutant: Volatile Organic Compound (VOC)

Emission Limit(s): 0.9 Tons/yr⁽²⁾

Authority for Requirement: Iowa DNR Construction Permit 92-A-590-S3

⁽²⁾ This is a bubble limit set on EU-40, EU-41, EU-42, EU-47, and EU-48. The limit was set through a netting process from 1987, revised in 1992 and now in February 2000.

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

NESHAP Applicability

1. This emission unit shall comply with all applicable requirements from 40 CFR Part 63, Subpart M, NESHAP for Surface Coating of Miscellaneous Metal Parts & Products and Subpart DDDDD, NESHAP for Commercial, Industrial, and Institutional Boilers and Process Heaters.

Authority for Requirement: IDNR Construction Permit 92-A-590-S3
567 IAC 23.1(4)"cm" and "dd"

Process Throughput

1. This source shall use only natural gas as the fuel source.

Reporting and Recordkeeping

All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.

1. The facility shall keep records of the type of fuel used in the source.

Authority for Requirement: Iowa DNR Construction Permit 92-A-590-S3

Emission Point Characteristics

This emission point shall conform to the conditions listed below.

Stack Height (feet): 54

Stack Diameter (inches): 26

Stack Exhaust Flow Rate (scfm): 3,400

Stack Temperature (°F): 550

Discharge Style: Vertical Unobstructed

Authority for Requirement: Iowa DNR Construction Permit 92-A-590-S3

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Compliance Assurance Monitoring (CAM) Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 47

Associated Equipment

Associated Emission Unit ID Numbers (if multiple units vent thru this EP): 47

Emission Unit vented through this Emission Point: 47
Emission Unit Description: Horizontal Line Bake Oven
Raw Material/Fuel: Natural Gas
Rated Capacity: 4.73 MMBtu/hr

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity

Emission Limit(s): 40%⁽¹⁾

Authority for Requirement: Iowa DNR Construction Permit 92-A-592-S3
567 IAC 23.3(2)"d"

⁽¹⁾ An exceedance of the indicator opacity of (no visible emissions) will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: PM₁₀

Emission Limit(s): 0.04 lb/hr

Authority for Requirement: Iowa DNR Construction Permit 92-A-592-S3

Pollutant: Particulate Matter

Emission Limit(s): 0.1 gr/dscf

Authority for Requirement: Iowa DNR Construction Permit 92-A-592-S3
567 IAC 23.3(2)"a"

Pollutant: Volatile Organic Compound (VOC)

Emission Limit(s): 0.9 Tons/yr⁽²⁾

Authority for Requirement: Iowa DNR Construction Permit 92-A-592-S3

⁽²⁾ This is a bubble limit set on EU-40, EU-41, EU-42, and EU-48. The limit was set through a netting process from 1987, revised in 1992 and now in February 2000.

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

NESHAP Applicability

1. This emission unit shall comply with all applicable requirements from 40 CFR Part 63, Subpart M, NESHAP for Surface Coating of Miscellaneous Metal Parts & Products and Subpart DDDDD, NESHAP for Commercial, Industrial, and Institutional Boilers and Process Heaters.

Authority for Requirement: IDNR Construction Permit 92-A592-S3
567 IAC 23.1(4)"cm" and "dd"

Process Throughput

1. This source shall use only natural gas as the fuel source.

Reporting and Recordkeeping

All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.

1. The facility shall keep records of the type of fuel used in the source.

Authority for Requirement: Iowa DNR Construction Permit 92-A-592-S3

Emission Point Characteristics

This emission point shall conform to the conditions listed below.

Stack Height (feet): 40

Stack Diameter (inches): 23

Stack Exhaust Flow Rate (scfm): 2,000

Stack Temperature (°F): 450

Discharge Style: Vertical Obstructed

Authority for Requirement: Iowa DNR Construction Permit 92-A-592-S3

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognized that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Compliance Assurance Monitoring (CAM) Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 48

Associated Equipment

Associated Emission Unit ID Numbers (if multiple units vent thru this EP): 48

Applicable Requirements

(If more than one emission unit vents through this emission point subdivide the applicable requirements by emission unit.)

Emission Unit vented through this Emission Point: 48
Emission Unit Description: Horizontal Line Bake Oven
Raw Material/Fuel: Natural Gas
Rated Capacity: 4.73 MMBtu/hr

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity

Emission Limit(s): 40%⁽¹⁾

Authority for Requirement: Iowa DNR Construction Permit 92-A-593-S3
567 IAC 23.3(2)"d"

⁽¹⁾ An exceedance of the indicator opacity of (no visible emissions) will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: PM₁₀

Emission Limit(s): 0.04 lb/hr

Authority for Requirement: Iowa DNR Construction Permit 92-A-593-S3

Pollutant: Particulate Matter

Emission Limit(s): 0.1 gr/dscf

Authority for Requirement: Iowa DNR Construction Permit 92-A-593-S3
567 IAC 23.3(2)"a"

Pollutant: Volatile Organic Compound (VOC)

Emission Limit(s): 0.9 Tons/yr⁽²⁾

Authority for Requirement: Iowa DNR Construction Permit 92-A-593-S3

⁽²⁾ This is a bubble limit set on EU-40, EU-41, EU-42, EU-47, and EU-48. The limit was set through a netting process from 1987, revised in 1992 and now in February 2000.

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

NESHAP Applicability

1. This emission unit shall comply with all applicable requirements from 40 CFR Part 63, Subpart M, NESHAP for Surface Coating of Miscellaneous Metal Parts & Products and Subpart D, NESHAP for Commercial, Industrial, and Institutional Boilers and Process Heaters.

Authority for Requirement: IDNR Construction Permit 92-A-593-S3
567 IAC 23.1(4)"cm" and "dd"

Process Throughput

1. This source shall use only natural gas as the fuel source.

Reporting and Recordkeeping

All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.

1. The facility shall keep records of the type of fuel used in the source.

Authority for Requirement: Iowa DNR Construction Permit 92-A-593-S3

Emission Point Characteristics

This emission point shall conform to the conditions listed below.

Stack Height (feet): 48

Stack Diameter (inches): 16

Stack Exhaust Flow Rate (scfm): 2,000

Stack Temperature (°F): 550

Discharge Style: Vertical Obstructed

Authority for Requirement: Iowa DNR Construction Permit 92-A-593-S3

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Compliance Assurance Monitoring (CAM) Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 49

Associated Equipment

Associated Emission Unit ID Numbers (if multiple units vent thru this EP): 49

Emission Unit vented through this Emission Point: 49

Emission Unit Description: Boiler

Raw Material/Fuel: Natural Gas and Fuel Oil

Rated Capacity: 22.6 MMBtu/hr

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity

Emission Limit(s): 40%⁽¹⁾

Authority for Requirement: 567 IAC 23.3(2)"d"

Iowa DNR Construction Permit 88-A-186-S2

⁽¹⁾ An exceedance of the indicator opacity of (25%) will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: PM₁₀

Emission Limit(s): 1.2 lb/hr

Authority for Requirement: Iowa DNR Construction Permit 88-A-186-S2

Pollutant: Particulate Matter

Emission Limit(s): 1.2 lb/hr, 0.6 lb/MMBtu

Authority for Requirement: Iowa DNR Construction Permit 88-A-186-S2
567 IAC 23.3(2)"b"

Pollutant: Nitrogen Oxides (NO_x)

Emission Limit(s): 3.0 lb/hr,

Authority for Requirement: Iowa DNR Construction Permit 88-A-186-S2

Pollutant: Sulfur Dioxide (SO₂)

Emission Limit(s): 1.07 lb/hr, 2.5 lb/MMBtu (fuel oil), 500 ppmv (natural gas)

Authority for Requirement: Iowa DNR Construction Permit 88-A-186-S2

567 IAC 23.3(3)"b"

567 IAC 23.3(3)"e"

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

NSPS and NESHAP Applicability

1. This emission unit shall comply with all applicable requirements from 40 CFR Part 60, subpart Dc, New Source Performance Standard for Small Industrial, Commercial, and Institutional Steam Generating Units.
2. This emission unit shall comply with all applicable requirements from 40 CFR Part 63, Subpart DDDDD, NESHAP for Industrial, Commercial, and Institutional Boilers and Process Heaters

Authority for Requirement: IDNR Construction Permit 88-A-186-S2

567 IAC 23.1(2)"III"

567 IAC 23.1(4)"dd"

Process Throughput

Operation of this source shall not exceed the following:

1. The emission unit may operate on natural gas or fuel oil #2.
2. The maximum sulfur content in the fuel oil shall not exceed a sulfur content weight percent of 0.5%.

Reporting and Recordkeeping

All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.

1. Maintain records of the sulfur content in the fuel when fuel oil is being combusted. This may be done by fuel supplier certification which includes the name of the oil supplier, and a statement that the oil complies with the specifications under the definition of distillate oil in 60.41c (40 CFR 60.48c(f)).
2. The owner or operator shall record the amount of each fuel combusted during each day (40 CFR 60.48c(g)).

Authority for Requirement: Iowa DNR Construction Permit 88-A-186-S2

567 IAC 23.1(2)

Emission Point Characteristics

This emission point shall conform to the conditions listed below.

Stack Height (feet): 45

Stack Diameter (inches): 32

Stack Exhaust Flow Rate (scfm): 7,950

Stack Temperature (°F): 450

Discharge Style: Vertical Unobstructed

Authority for Requirement: Iowa DNR Construction Permit 88-A-186-S2

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Compliance Assurance Monitoring (CAM) Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 52

Associated Equipment

Associated Emission Unit ID Number: 52
Emissions Control Equipment ID Number: 52
Emissions Control Equipment Description: Dry Filter

Emission Unit vented through this Emission Point: 52
Emission Unit Description: Maintenance Paint Booth
Raw Material/Fuel: Paint
Rated Capacity: 3.56 gal./hr

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit(s): 40%⁽¹⁾
Authority for Requirement: Iowa DNR Construction Permit 04-A-437-S1
567 IAC 23.3(2)"d"

⁽¹⁾ An exceedance of the indicator opacity of (10%) will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: PM₁₀
Emission Limit(s): 1.71 lb/hr
Authority for Requirement: Iowa DNR Construction Permit 04-A-437-S1

Pollutant: Particulate Matter
Emission Limit(s): 0.01 gr./dscf
Authority for Requirement: Iowa DNR Construction Permit 04-A-437-S1
567 IAC 23.4(13)

Pollutant: Volatile Organic Compounds (VOC)
Emission Limit(s): 8.9 Tons/yr
Authority for Requirement: Iowa DNR Construction Permit 04-A-437-S1

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Process Throughput:

1. Material usage at this booth shall be a maximum of 2,220 gallons per twelve month rolling period.
2. Materials used at this booth shall have a maximum VOC content of 8.0 lbs VOC/gallon as applied.
3. This booth shall be limited to using only one spray gun at any one time.
4. This booth shall be limited to using a spray gun with a maximum capacity of 6.7 gal/hr.

Reporting and Recordkeeping:

All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.

1. The owner or operator shall record the amount of material used in this booth, and update the twelve month rolling total on a monthly basis.
2. The owner or operator shall keep Material Safety Data Sheets (MSDS) of all materials used in this booth, which demonstrate the VOC content.
3. The owner or operator shall keep the manufacturer's specifications on each spray gun used in this booth, which demonstrates the maximum spray capacity.

Authority for Requirement: Iowa DNR Construction Permit 04-A-437-S1

Emission Point Characteristics

This emission point shall conform to the conditions listed below.

Stack Height (feet): 36

Stack Diameter (inches): 42

Stack Exhaust Flow Rate (scfm): 22,400

Stack Temperature (°F): Ambient

Discharge Style: Vertical Unobstructed

Authority for Requirement: Iowa DNR Construction Permit 04-A-437-S1

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☒ No ☐

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Compliance Assurance Monitoring (CAM) Plan Required? Yes ☐ No ☒

Agency Paint Booth Operation and Maintenance Plan

Weekly

- Inspect the paint booth system for conditions that reduce the operating efficiency of the collection system. This will include a visual inspection of the condition of the filter material.
- Maintain a written record of the observation and any action resulting from the inspection.

Record Keeping and Reporting

Maintenance and inspection records will be kept for five years and available upon request.

Quality Control

- The filter equipment will be operated and maintained according to the manufacturers recommendations.

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 53

Associated Equipment

Associated Emission Unit ID Number: 53

Emissions Control Equipment ID Number: CE 53

Emissions Control Equipment Description: Wet Scrubber

Emission Unit vented through this Emission Point: 53

Emission Unit Description: Sludge Dryer

Raw Material/Fuel: Sludge and Natural Gas

Rated Capacity: 76 lb/hr Sludge and 0.42 MMBtu/hr Natural Gas

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity

Emission Limit(s): 40%⁽¹⁾

Authority for Requirement: 567 IAC 23.3(2)"d"

Iowa DNR Construction Permit 90-A-156-S1

⁽¹⁾An exceedance of the indicator opacity of (10%) will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: PM₁₀

Emission Limit(s): 0.15 lb/hr

Authority for Requirement: Iowa DNR Construction Permit 90-A-156-S1

Pollutant: Particulate Matter

Emission Limit(s): 1.015 lb/hr, 0.1 gr/dscf

Authority for Requirement: Iowa DNR Construction Permit 90-A-156-S1
567 IAC 23.3(2)"a"

Pollutant: Sulfur Dioxide (SO₂)

Emission Limit(s): 500 ppmv

Authority for Requirement: 567 IAC 23.3(3)"e"

Pollutant: Mercury

Emission Limit(s): 7.1 lb/24 hr

Authority for Requirement: Iowa DNR Construction Permit 90-A-156-S1
40 CFR 61.52(b)

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

NESHAP Applicability

1. None of the NSPS standards apply to this unit at this time. Subpart E, *National Emission Standard for Mercury*, applies. Subpart DDDDD, *National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial and Institutional Boilers and Process Heaters*, as an existing source after the compliance date of September 13, 2007

Authority for Requirement: IDNR Construction Permit 90-A-156-S1
567 IAC 23.1(3)"d"
567 IAC 23.1(4)"dd"

Process Throughput

- 1) The permittee is responsible for assuring that this sludge dryer is operated in compliance with 40 CFR 61.52(b) Subpart E – National Emissions Standard for Mercury
- 2) This emission unit shall comply with all applicable requirements from 40 CFR Part 63, Subpart DDDDD, NESHAP for Industrial, Commercial, and Institutional Boilers and Process Heaters.

Authority for Requirement: Iowa DNR Construction Permit 90-A-156-S1
567 IAC 23.1(3) and 567 IAC 23.1(4)

Emission Point Characteristics

This emission point shall conform to the conditions listed below.

Stack Height (feet): 46

Stack Diameter (inches): 6

Stack Exhaust Flow Rate (scfm): 675

Stack Temperature (°F): 500

Discharge Style: Vertical Unobstructed

Authority for Requirement: Iowa DNR Construction Permit 90-A-156-S1

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Stack Testing:

Pollutant - Mercury

1st Stack Test to be Completed by (date) - within first two years of permit term

Test Method - 40 CFR 60, Appendix A, Method 29

Authority for Requirement - 567 IAC 22.108(3)

Stack Testing:

Pollutant - Particulate Matter

1st Stack Test to be Completed by (date) - within first two years of permit term

Test Method - Iowa Compliance Sampling Manual Method 5

Authority for Requirement - 567 IAC 22.108(3)

The owner of this equipment or the owner's authorized agent shall provide written notice to the Director, not less than 30 days before a required stack test or performance evaluation of a continuous emission monitor. Results of the test shall be submitted in writing to the Director in the form of a comprehensive report within 6 weeks of the completion of the testing. 567 IAC 25.1(7)

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☒ No ☐

Compliance Assurance Monitoring (CAM) Plan Required? Yes ☐ No ☒

Facility operation and maintenance plans must be sufficient to yield reliable data from the relevant time period that are representative of the source's compliance with the applicable requirements.

Facility operation and maintenance plans are to be developed by the facility within six(6) months of the issuance date of this permit and the data pertaining to the plan maintained on site for at least 5 years. The plan and associated recordkeeping provides documentation of this facility's implementation of its obligation to operate according to good air pollution control practice.

Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 54

Associated Equipment

Associated Emission Unit ID Numbers (if multiple units vent thru this EP): 54

Emissions Control Equipment ID Number: CE 54A and CE 54B

Emissions Control Equipment Description: Cyclone and Baghouse

Applicable Requirements

(If more than one emission unit vents through this emission point subdivide the applicable requirements by emission unit.)

Emission Unit vented through this Emission Point: 54

Emission Unit Description: Woodworking Operations

Raw Material/Fuel: Wood

Rated Capacity: 2880 Mcf/hr

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity

Emission Limit(s): 40%⁽¹⁾

Authority for Requirement: Iowa DNR Construction Permit 92-A-585-S2
567 IAC 23.3(2)"d"

⁽¹⁾ An exceedance of the indicator opacity of (no visible emissions) will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing)

Pollutant: PM₁₀

Emission Limit(s): 0.72 lb/hr

Authority for Requirement: Iowa DNR Construction Permit 92-A-585-S2

Pollutant: Particulate Matter

Emission Limit(s): 3.2 lb/hr, 0.1 gr./dscf

Authority for Requirement: Iowa DNR Construction Permit 92-A-585-S2
567 IAC 23.3(2)"a"

Emission Point Characteristics

This emission point shall conform to the conditions listed below.

Stack Height (feet): 30

Stack Diameter (inches): 48 x 48

Stack Exhaust Flow Rate (scfm): 47,600

Stack Temperature (°F): Ambient

Discharge Style: Horizontal

Authority for Requirement: Iowa DNR Construction Permit 92-A-585-S2

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

The stack test for EP 55 will satisfy the periodic monitoring stack test requirements for this emission point.

Agency Approved Operation & Maintenance Plan Required? Yes ☒ No ☐

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Compliance Assurance Monitoring (CAM) Plan Required? Yes ☐ No ☒

Baghouse Agency Operation & Maintenance Plan

The key element of the material outlined below is the facilities willingness to use no visible emissions as an action level for taking corrective measures. If this had not been the case, further monitoring techniques may be requested. Examples of monitoring techniques which are used to evaluate baghouse performance may be found in the compilation named "Baghouse Periodic Monitoring Literature Review" (File Name bag_lit.doc). This document is a compilation of guidance from APTI training courses and other sources on ways to monitor baghouse performance.

The following baghouse parameters should be considered by the permit reviewer when determining what is monitored and the frequency.

Baghouse Parameters

Baghouse type: ☒ Pulse Jet ☐ Reverse Air ☐ Shaker

Material handled: Wood

Moisture problems possible: ☐ Yes ☒ No

Material corrosive: ☐ Yes ☒ No

If yes, are acid resistant bags in use: ☐ Yes ☐ No

Operating temperature (°F): Ambient

Monitoring Guidelines

The facility makes a commitment to take timely corrective action during periods of excursion where the indicators are out of range. A corrective action may include an investigation of the reason for the excursion, evaluation of the situation and necessary follow-up action to return operation within the indicator range. An excursion is determined by the averaged discrete data point over a period of time. An excursion does not necessarily indicate a violation of an applicable requirement. If the corrective action measures fail to return the indicators to the appropriate range, the facility will report the exceedance to the department and conduct source testing within 90 days of the exceedance to demonstrate compliance with applicable requirements. If the test demonstrates compliance with emission limits then new indicator ranges must be set for monitoring and the new ranges must be incorporated in the operating permit. If the test demonstrates noncompliance with emission limits, then the facility, within 60 days, proposes a schedule to implement corrective action to bring the source into compliance and demonstrate compliance.

General

Periodic Monitoring is not required during periods of time greater than one day in which the source does not operate.

Weekly

- Visible emissions shall be observed on a weekly basis to ensure no visible emissions occur during the material handling operation of the unit. If visible emissions are observed this would be an excursion not a violation, and corrective action will be taken as soon as possible, but no later than 8 hours. If corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required. If an opacity (>40 %) is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If weather conditions prevent the observer from conducting an observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake readings at approximately 2 hour intervals throughout the day. If unsuccessful that day due to weather, an observation shall be made the following day.
- Check and document the baghouse pressure drop. If the pressure drop falls out of the normal operating range, specified by the manufacturer, corrective action will be taken within 8 hours to return the pressure drop to normal.

Maintain a written record of the observation and any action resulting from the inspection.

Monthly

- Check the cleaning sequence of the baghouse.
- Pulse jet baghouse - check the air delivery system
- Check the hopper functions and performance.

If leaks or abnormal conditions are detected the appropriate measures for remediation will be implemented within eight (8) hours. Maintain a written record of the inspection and any action resulting from the inspection.

Quarterly

- Thoroughly inspect bags for leaks and wear. (Look for obvious holes or tears in the bags.)

If leaks or abnormal conditions are detected the appropriate measures for remediation will be implemented within eight (8) hours. Bag replacement should be documented by identifying the date, time and location of the bag in relationship to the other bags. The location should be identified on an overhead drawing of the bag layout in the baghouse. Maintain a written record of the inspection and any action resulting from the inspection.

Semiannual

- Inspect every 6 months all components that are not subject to wear or plugging, including structural components, housing, ducts and hoods.

If leaks or abnormal conditions are detected the appropriate measures for remediation will be implemented within eight (8) hours. Maintain a written record of the inspection and any action resulting from the inspection.

Record Keeping and Reporting

Maintenance and inspection records will be kept for five years and available upon request.

Quality Control

- The filter equipment will be operated and maintained according to the manufacturers recommendations.
- An adequate inventory of spare parts shall be kept.

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 55

Associated Equipment

Associated Emission Unit ID Numbers (if multiple units vent thru this EP): 55

Emissions Control Equipment ID Number: CE 55A and CE 55B

Emissions Control Equipment Description: Cyclone and Baghouse

Emission Unit vented through this Emission Point: 55

Emission Unit Description: Woodworking Operations

Raw Material/Fuel: Wood

Rated Capacity: 3702 Mcf/hr

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity

Emission Limit(s): 40%⁽¹⁾

Authority for Requirement: Iowa DNR Construction Permit 92-A-586-S2
567 IAC 23.3(2)"d"

⁽¹⁾ An exceedance of the indicator opacity of (no visible emissions) will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: PM₁₀

Emission Limit(s): 0.47 lb/hr

Authority for Requirement: Iowa DNR Construction Permit 92-A-586-S2

Pollutant: Particulate Matter

Emission Limit(s): 3.6 lb/hr, 0.1 gr./dscf

Authority for Requirement: Iowa DNR Construction Permit 92-A-586-S2
567 IAC 23.3(2)"a"

Emission Point Characteristics

This emission point shall conform to the conditions listed below.

Stack Height (feet): 30

Stack Diameter (inches): 54

Stack Exhaust Flow Rate (scfm): 60,000

Stack Temperature (°F): Ambient

Discharge Style: Horizontal

Authority for Requirement: Iowa DNR Construction Permit 92-A-586-S2

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Stack Testing:

Pollutant - PM₁₀

1st Stack Test to be Completed by (date) - within first two years of permit term

Test Method - 40 CFR 51, Appendix M, 201A with 202

Authority for Requirement - 567 IAC 22.108(3)

Stack Testing:

Pollutant - Particulate Matter

1st Stack Test to be Completed by (date) - within first two years of permit term

Test Method - Iowa Compliance Sampling Manual Method 5

Authority for Requirement - 567 IAC 22.108(3)

The owner of this equipment or the owner's authorized agent shall provide written notice to the director, not less than 30 days before a required stack test or performance evaluation of a continuous emission monitor. Results of the test shall be submitted in writing to the Director in the form of a comprehensive report within 6 weeks of the completion of the testing. 567 IAC 25.1(7)

Agency Approved Operation & Maintenance Plan Required?

Yes ☒ No ☐

Facility Maintained Operation & Maintenance Plan Required?

Yes ☐ No ☒

Compliance Assurance Monitoring (CAM) Plan Required?

Yes ☐ No ☒

Baghouse Agency Operation & Maintenance Plan

The key element of the material outlined below is the facilities willingness to use no visible emissions as an action level for taking corrective measures. If this had not been the case, further monitoring techniques may be requested. Examples of monitoring techniques which are used to evaluate baghouse performance may be found in the compilation named "Baghouse Periodic Monitoring Literature Review" (File Name bag_lit.doc). This document is a compilation of guidance from APTI training courses and other sources on ways to monitor baghouse performance.

The following baghouse parameters should be considered by the permit reviewer when determining what is monitored and the frequency.

Baghouse Parameters

Baghouse type: ☒ Pulse Jet ☐ Reverse Air ☐ Shaker

Material handled: Wood

Moisture problems possible: ☐ Yes ☒ No

Material corrosive: ☐ Yes ☒ No

If yes, are acid resistant bags in use: ☐ Yes ☐ No

Operating temperature (°F): Ambient

Monitoring Guidelines

The facility makes a commitment to take timely corrective action during periods of excursion where the indicators are out of range. A corrective action may include an investigation of the reason for the excursion, evaluation of the situation and necessary follow-up action to return operation within the indicator range. An excursion is determined by the averaged discrete data point over a period of time. An excursion does not necessarily indicate a violation of an applicable requirement. If the corrective action measures fail to return the indicators to the appropriate range, the facility will report the exceedance to the department and conduct source testing within 90 days of the exceedance to demonstrate compliance with applicable requirements. If the test demonstrates compliance with emission limits then new indicator ranges must be set for monitoring and the new ranges must be incorporated in the operating permit. If the test demonstrates noncompliance with emission limits, then the facility, within 60 days, proposes a schedule to implement corrective action to bring the source into compliance and demonstrate compliance.

General

Periodic Monitoring is not required during periods of time greater than one day in which the source does not operate.

Weekly

- Visible emissions shall be observed on a weekly basis to ensure no visible emissions occur during the material handling operation of the unit. If visible emissions are observed this would be an excursion not a violation, and corrective action will be taken as soon as possible, but no later than 8 hours. If corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required. If an opacity (>40 %) is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If weather conditions prevent the observer from conducting an observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake readings at approximately 2 hour intervals throughout the day. If unsuccessful that day due to weather, an observation shall be made the following day.
- Check and document the baghouse pressure drop. If the pressure drop falls out of the normal operating range, specified by the manufacturer, corrective action will be taken within 8 hours to return the pressure drop to normal.

Maintain a written record of the observation and any action resulting from the inspection.

Monthly

- Check the cleaning sequence of the baghouse.
- Pulse jet baghouse - check the air delivery system
- Check the hopper functions and performance.

If leaks or abnormal conditions are detected the appropriate measures for remediation will be implemented within eight (8) hours. Maintain a written record of the inspection and any action resulting from the inspection.

Quarterly

- Thoroughly inspect bags for leaks and wear. (Look for obvious holes or tears in the bags.)

If leaks or abnormal conditions are detected the appropriate measures for remediation will be implemented within eight (8) hours. Bag replacement should be documented by identifying the date, time and location of the bag in relationship to the other bags. The location should be identified on an overhead drawing of the bag layout in the baghouse. Maintain a written record of the inspection and any action resulting from the inspection.

Semiannual

- Inspect every 6 months all components that are not subject to wear or plugging, including structural components, housing, ducts and hoods.

If leaks or abnormal conditions are detected the appropriate measures for remediation will be implemented within eight (8) hours. Maintain a written record of the inspection and any action resulting from the inspection.

Record Keeping and Reporting

Maintenance and inspection records will be kept for five years and available upon request.

Quality Control

- The filter equipment will be operated and maintained according to the manufacturers recommendations.
- An adequate inventory of spare parts shall be kept.

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: CO

Associated Equipment

Associated Emission Unit ID Numbers: 58, 59, 60, 62, 63, 89,96,113, and 116

Emissions Control Equipment ID Number: CO

Emissions Control Equipment Description: Catalytic Oxidizer

Emission Unit vented through this Emission Point: 58

Emission Unit Description: Wood Preservative Dip Tank

Raw Material/Fuel: Wood Preservative

Rated Capacity: 1,400 parts/hr

Emission Unit vented through this Emission Point: 59

Emission Unit Description: Wood Preservative Dip Tank

Raw Material/Fuel: Wood Preservative

Rated Capacity: 400 parts/hr

Emission Unit vented through this Emission Point: 60

Emission Unit Description: Wood Preservative Dip Tank

Raw Material/Fuel: Wood Preservative

Rated Capacity: 1,400 parts/hr

Emission Unit vented through this Emission Point: 62

Emission Unit Description: Wood Preservative Dip Tank

Raw Material/Fuel: Wood Preservative

Rated Capacity: 860 parts/hr

Emission Unit vented through this Emission Point: 63

Emission Unit Description: Wood Preservative Dip Tank

Raw Material/Fuel: Wood Preservative

Rated Capacity: 1,500 parts/hr

Emission Unit vented through this Emission Point: 89

Emission Unit Description: Wood Preservative Dip-Dry

Raw Material/Fuel: Wood Preservative

Rated Capacity: 700 parts/hr

Emission Unit vented through this Emission Point: 96

Emission Unit Description: Wood Dip-Dry

Raw Material/Fuel: Wood Preservative

Rated Capacity: 300 parts/hr

Emission Unit vented through this Emission Point: 113

Emission Unit Description: Wood Dip-Dry
Raw Material/Fuel: Wood Preservative
Rated Capacity: 1,390 parts/hr

Emission Unit vented through this Emission Point: 116
Emission Unit Description: Wood Dip/Dry Double Hung
Raw Material/Fuel: Wood Preservative
Rated Capacity: 200 parts/hr

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit(s): 40%⁽¹⁾
Authority for Requirement: Iowa DNR Construction Permit 98-A-872-S6
567 IAC 23.3(2)"d"

⁽¹⁾An exceedance of the indicator opacity of (10%) will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: PM₁₀
Emission Limit(s): 0.75 lb/hr
Authority for Requirement: Iowa DNR Construction Permit 98-A-872-S6

Pollutant: Particulate Matter
Emission Limit(s): 0.01 gr/dscf
Authority for Requirement: Iowa DNR Construction Permit 98-A-872- S6
567 IAC 23.4(13)

Pollutant: Volatile Organic Compounds (VOC)
Emission Limit(s): 50 Tons/yr⁽²⁾
Authority for Requirement: Iowa DNR Construction Permit 98-A-872- S6

⁽²⁾Limit based on operating limits and 95% destruction efficiency of the control equipment when EU 58, EU 59, EU 60, EU 62, EU 63, EU 64, EU 84, EU 89, EU 96, and EU 113 vent through EP CO. This VOC limit is a bubble limit for the eleven emission points of EU 58, EU 59, EU 60, EU 62, EU 63, EU 64, EU 84, EU 89, EU 96, EU 113 and EP CO, which shall not be exceeded in any combination by the use of these eleven emission points.

Note: Emission Points 64 and 84 have been removed. The facility will be seeking a modification to the construction permit to reflect this change.

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

NESHAP Applicability

1. This emission unit shall comply with all applicable requirements from 40 CFR Part 63, Subpart DDDDD, NESHAP for Industrial, Commercial, and Institutional Boilers and Process Heaters and 40 CFR Part 63, Subpart QQQQ, NESHAP for Surface Coating of Wood building Products.

Authority for Requirement: IDNR Construction Permit 98-A-872-S6
567 IAC 23.1(4)"dd"
567 IAC 23.1(4)"cq"

Process Throughput:

1. The temperature range of the inlet gas stream shall be maintained between 552 °F and 748 °F.
2. The catalyst shall be inspected and maintained according to manufacturer's specifications.
3. The maximum VOC content of any preservative or mineral spirits added to the emission units listed in Permit Condition 11 (EU 58, EU 59, EU 60, EU 62, EU 63, EU 64, EU 84, EU 89, EU 96, and EU 113) shall not exceed 7.0 lbs/gallon, except EU 116 which shall have a maximum VOC content of 6.5 lb/gal.

Note: Emission Points 64 and 84 have been removed. The facility will be modifying the construction permit to reflect this change.

Reporting and Recordkeeping:

All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.

1. The owner or operator shall keep hourly records of the inlet temperature to ensure proper performance.
2. The owner or operator shall record the span time the control equipment is not operable while the associated dip tanks are being used.
3. The owner or operator shall keep records of any maintenance on the catalyst.

4. Record the VOC content of any preservative or mineral spirits added to the emission units listed in Permit Condition 11 (EU 58, EU 59, EU 60, EU 62, EU 63, EU 89, EU 96, EU 113 and EU 116) in pounds per gallon.
5. Record the amount of preservative and mineral spirits added to the emission units listed in Permit Condition 11 (EU 58, EU 59, EU 60, EU 62, EU 63, EU 89, EU 96 and EU 113) in gallons on a daily basis.
6. Calculate and record on a rolling 12 month basis the total emissions from EP 58, EP 59, EP 60, EP 62, EP 63, EP 89, EP 96, EP 113 and EP CO to ensure that total emissions are below the 50 tons per twelve month rolling total limit.

Authority for Requirement: Iowa DNR Construction Permit 98-A-872-S6

Emission Point Characteristics

This emission point shall conform to the conditions listed below.

Stack Height (feet): 31

Stack Diameter (inches): 26

Stack Exhaust Flow Rate (scfm): 15,000

Stack Temperature (°F): 245-500

Discharge Style: Vertical Unobstructed

Authority for Requirement: Iowa DNR Construction Permit 98-A-872-S6

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Compliance Assurance Monitoring (CAM) Plan Required? Yes ☒ No ☐

Authority for Requirement: 567 IAC 22.108(3)

Compliance Assurance Monitoring for Catalytic Oxidizer for VOC Control

1. APPLICABILITY

1.1 Control Technology: Catalytic Oxidizer

1.2 Pollutants: Volatile organic compounds (VOC's)

1.3 Process/Emissions Unit: Wood Dip/Dry Units

1.4 Applicable Regulation and Emission Limit

Iowa DNR Construction Permit: 98-A-872-S6

Emission Limit: Volatile Organic Compounds limited to 50 Tons/yr

2. MONITORING APPROACH DESCRIPTION

2.1 Parameters to be Monitored: Catalyst inlet gas stream temperatures between 500° F and 1000° F.

2.2 Rationale for Monitoring Approach

- Catalyst inlet gas temperature: Allows determination of temperature of gas flowing into catalyst bed to ensure bed is maintained within the design temperature range to ensure 95% destruction efficiency.
- The number of hours the by-pass stacks (EP-58, EP-59, EP-60, EP-62, EP-63, EP-89, EP-96, EP-113 and EP-116) are open to the atmosphere on a daily basis.

2.3 Monitoring Location:

- Inlet gas temperature: Inlet temperature probe is immediately prior to the air stream entering the catalytic bed.

2.4 Analytical Devices Required

- Inlet temperatures: Thermocouples as appropriate for specific gas stream.

2.5 Data Acquisition and Measurement System Operation

- Frequency of measurement: Recorded continuously on strip chart or data acquisition system. Checked daily for temperatures outside operational parameters.
- Reporting units: Degrees Fahrenheit (°F)
- Recording process: Operators take readings and manually log data, or recorded automatically on strip chart or digital data acquisition system.

2.6 Data Requirements

- Historical plant records on catalyst inlet gas temperatures.

2.7 Specific QA/QC Procedures:

- Calibrate, maintain and operate instrumentation using procedures that take into account manufacturer's specifications.
- A stack test was conducted on the inlet and outlet to verifying the 95% destruction efficiency. This stack test was conducted March 15, 2005.
- The oxidizer shall be operated and maintained according to the manufacturers recommendations.
- Verify Chart recorder calibration annually.

3. COMMENTS

3.1 Data Collection Frequency: Inlet temperature shall be measured continuously during the hours of operation of the oxidizer.

Emission Point ID Number: 58 (Bypass Stack)

Associated Equipment

Associated Emission Unit ID Number: 58

Emission Unit vented through this Emission Point: 58
Emission Unit Description: Wood Preservative Dip Tank
Raw Material/Fuel: Wood Preservative
Rated Capacity: 1,400 parts/hr

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity

Emission Limit(s): 40%⁽¹⁾

Authority for Requirement: Iowa DNR Construction Permit 92-A-558-S6
567 IAC 23.3(2)"d"

⁽¹⁾ An exceedance of the indicator opacity of (10%) will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: Particulate Matter

Emission Limit(s): 0.01 gr/dscf

Authority for Requirement: Iowa DNR Construction Permit 92-A-558-S6
567 IAC 23.4(13)

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): 50 Tons/yr⁽²⁾⁽³⁾

Authority for Requirement: Iowa DNR Construction Permit 92-A-558-S6

(2) Limit based on operating limits and 95% destruction efficiency of the control equipment when EU 58, EU 59, EU 60, EU 62, EU 63, EU 64, EU 84, EU 89, EU 96, and EU 113 vent through EP CO. This VOC limit is a bubble limit for the eleven emission points of EU 58, EU 59, EU 60, EU 62, EU 63, EU 64, EU 84, EU 89, EU 96, and EU 113, and EP CO, which shall not be exceeded in any combination in the use of these eleven emission points.

(3) Note: Emission unit EU-64 & EU-84 have been removed. The facility will be obtaining a modified construction permit to reflect this change.

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

NESHAP Applicability

1. This emission unit shall comply with all applicable requirements from 40 CFR Part 63, Subpart QQQQ, NESHAP for Surface Coating of Wood Building Products.

Authority for Requirement: IDNR Construction Permit 92-A-558-S6
567 IAC 23.1(4)"cq"

Process Throughput

1. The maximum VOC content of any preservative or mineral spirits added to the Wood Dip – Dry DH Sash 1 (EU 58) shall not exceed 7.0 pounds per gallon.
2. The by-pass stack shall have a device to determine the number of hours that the by-pass stack is open to the atmosphere.

Records and Recordkeeping

All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.

1. Record the VOC content of any preservative or mineral spirits added to Wood Dip – Dry DH Sash 1(EU 58) in pounds per gallon.
2. Record the amount of preservative and mineral spirits added to Wood Dip – Dry DH Sash 1 (EU58) in gallons on a daily basis.
3. Record the number hours the by-pass stack (EP 58) is open to the atmosphere on a daily basis.
4. Calculate and record the total VOC emissions in tons per month that are emitted through bypass stack EP 58.
5. Calculate and record on a rolling 12 month basis the total emissions from EP 58, EP 59, EP 60, EP 62, EP 63, EP 64, EP 84, EP 89, EP 96, and EP 113, and EP CO to ensure that total emissions are below 50 tons per year limit.

Note: Emission unit EU-64 & EU-84 have been removed. The facility will be obtaining a modified construction permit to reflect this change.

Authority for Requirement: Iowa DNR Construction Permit 92-A-558-S6

Emission Point Characteristics

This emission point shall conform to the conditions listed below.

Stack Height (feet): 25

Stack Diameter (inches): 12

Stack Exhaust Flow Rate (scfm): 1000

Stack Temperature (°F): 70

Discharge Style: Unobstructed Vertical

Authority for Requirement: Iowa DNR Construction Permit 92-A-558-S6

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Compliance Assurance Monitoring (CAM) Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 59 (Bypass Stack)

Associated Equipment

Associated Emission Unit ID Numbers: 59

Applicable Requirements

(If more than one emission unit vents through this emission point subdivide the applicable requirements by emission unit.)

Emission Unit vented through this Emission Point: 59
Emission Unit Description: Wood Preservative Dip Tank
Raw Material/Fuel: Wood Preservative
Rated Capacity: 400 parts/hr

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity

Emission Limit(s): 40%⁽¹⁾

Authority for Requirement: Iowa DNR Construction Permit 92-A-559-S6
567 IAC 23.3(2)"d"

⁽¹⁾ An exceedance of the indicator opacity of (10%) will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: Particulate Matter

Emission Limit(s): 0.01 gr/dscf

Authority for Requirement: Iowa DNR Construction Permit 92-A-559-S6
567 IAC 23.4(13)

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): 50 Tons/yr⁽²⁾⁽³⁾

Authority for Requirement: Iowa DNR Construction Permit 92-A-559-S6

- (2) Limit based on operating limits and 95% destruction efficiency of the control equipment when EU 58, EU 59, EU 60, EU 62, EU 63, EU 64, EU 84, EU 89, EU 96, and EU 113 vent through EP CO. This VOC limit is a bubble limit for the eleven emission points of EU 58, EU 59, EU 60, EU 62, EU 63, EU 64, EU 84, EU 89, EU 96, and EU 113, and EP CO, which shall not be exceeded in any combination in the use of these eleven emission points.
- (3) Note: Emission points EU-64 and EU-84 have been removed. The facility will be obtaining modified construction permits to reflect these changes.

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

NESHAP Applicability

1. This emission unit shall comply with all applicable requirements from 40 CFR Part 63, Subpart QQQQ, NESHAP for Surface Coating of Wood Building Products.

Authority for Requirement: IDNR Construction Permit 92-A-559-S6
567 IAC 23.1(4)"cq"

Process Throughput

1. The maximum VOC content of any preservative or mineral spirits added to the Wood Preservative Dip Tank #2 (EU59) shall not exceed 7.0 pounds per gallon.
2. The by-pass stack shall have a device to determine the number of hours the by-pass stack is open to the atmosphere.

Reporting and Recordkeeping

All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.

1. Record the VOC content of any preservative or mineral spirits added to Wood Preservative Dip Tank #2 (EU 59) in pounds per gallon.
2. Record the amount of preservative and mineral spirits added to Wood Preservative Dip Tank #2 (EU 59) in gallons on a daily basis.
3. Record the number hours the by-pass stack (EP 59) is open to the atmosphere on a daily basis.
4. Calculate and record the total VOC emissions in tons per month that are emitted through bypass stack EP 59.
5. Calculate and record on a rolling 12 month basis the total emissions from EP 58, EP 59, EP 60, EP 62, EP 63, EP 64, EP 84, EP 89, EP 96, and EP 113, and EP CO to ensure that total emissions are below 50 tons per year limit.

Note: Emission units EU-64 and EU-84 have been removed. The facility will be obtaining modified construction permits to reflect these changes.

Authority for Requirement: Iowa DNR Construction Permit 92-A-559-S6

Emission Point Characteristics

This emission point shall conform to the conditions listed below.

Stack Height (feet): 25

Stack Diameter (inches): 12

Stack Exhaust Flow Rate (scfm): 1000

Stack Temperature (°F): 70

Discharge Style: Un Obstructed Vertical

Authority for Requirement: Iowa DNR Construction Permit 92-A-559-S6

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Compliance Assurance Monitoring (CAM) Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 60 (Bypass Stack)

Associated Equipment

Associated Emission Unit ID Number: 60

Emission Unit vented through this Emission Point: 60
Emission Unit Description: Wood Preservative Dip Tank
Raw Material/Fuel: Wood Preservative
Rated Capacity: 1,400 parts/hr

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity

Emission Limit(s): 40%⁽¹⁾

Authority for Requirement: Iowa DNR Construction Permit 92-A-560-S6
567 IAC 23.3(2)"d"

⁽¹⁾ An exceedance of the indicator opacity of (10%) will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: Particulate Matter

Emission Limit(s): 0.01 gr/dscf

Authority for Requirement: Iowa DNR Construction Permit 92-A-560-S6
567 IAC 23.4(13)

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): 50 Tons/yr⁽²⁾⁽³⁾

Authority for Requirement: Iowa DNR Construction Permit 92-A-560-S6

(2) Limit based on operating limits and 95% destruction efficiency of the control equipment when EU 58, EU 59, EU 60, EU 62, EU 63, EU 64, EU 84, EU 89, EU 96, and EU 113 vent through EP CO. This VOC limit is a bubble limit for the eleven emission points of EU 58, EU 59, EU 60, EU 62, EU 63, EU 64, EU 84, EU 89, EU 96, and EU 113, and EP CO, which shall not be exceeded in any combination in the use of these eleven emission points.

(3) Note: Emission units EU-64 and EU-84 have been removed. The facility will be obtaining modified construction permits to reflect these changes.

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

NESHAP Applicability

1. This emission unit shall comply with all applicable requirements from 40 CFR Part 63, Subpart QQQQ, NESHAP for Surface Coating of Wood Building Products.

Authority for Requirement: IDNR Construction Permit 92-A-560-S6
567 IAC 23.1(4)"cq"

Process Throughput

1. The maximum VOC content of any preservative or mineral spirits added to the Wood Preservative Dip Tank #3 (EU 60) shall not exceed 7.0 pounds per gallon.
2. The by-pass stack shall have a device to determine the number of hours that the by-pass stack is open to the atmosphere.

Reporting and Recordkeeping

All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.

1. Record the VOC content of any preservative or mineral spirits added to Wood Preservative Dip Tank #2 (EU 59) in pounds per gallon.
2. Record the amount of preservative and mineral spirits added to Wood Preservative Dip Tank #2 (EU 59) in gallons on a daily basis.
3. Record the number hours the by-pass stack (EP 59) is open to the atmosphere on a daily basis.
4. Calculate and record the total VOC emissions in tons per month that are emitted through bypass stack EP 59.
5. Calculate and record on a rolling 12 month basis the total emissions from EP 58, EP 59, EP 60, EP 62, EP 63, EP 64, EP 84, EP 89, EP 96, and EP 113, and EP CO to ensure that total emissions are below 50 tons per year limit.

Note: Emission units EU-64 and EU-84 have been removed. The facility will be obtaining modified construction permits to reflect these changes.

Authority for Requirement: Iowa DNR Construction Permit 92-A-560-S5

Emission Point Characteristics

This emission point shall conform to the conditions listed below.

Stack Height (feet): 25

Stack Diameter (inches): 12

Stack Exhaust Flow Rate (scfm): 1000

Stack Temperature (°F): 70

Discharge Style: Unobstructed Vertical

Authority for Requirement: Iowa DNR Construction Permit 92-A-560-S6

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Compliance Assurance Monitoring (CAM) Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 62 (Bypass Stack)

Associated Equipment

Associated Emission Unit ID Number: 62

Emission Unit vented through this Emission Point: 62
Emission Unit Description: Wood Preservative Dip Tank
Raw Material/Fuel: Wood Preservative
Rated Capacity: 860 parts/hr

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity

Emission Limit(s): 40%⁽¹⁾

Authority for Requirement: Iowa DNR Construction Permit 92-A-562-S6
567 IAC 23.3(2)"d"

⁽¹⁾ An exceedance of the indicator opacity of (10%) will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: Particulate Matter

Emission Limit(s): 0.01 gr/dscf

Authority for Requirement: Iowa DNR Construction Permit 92-A-562-S6
567 IAC 23.4(13)

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): 50 Tons/yr⁽²⁾⁽³⁾

Authority for Requirement: Iowa DNR Construction Permit 92-A-562-S6

(2) Limit based on operating limits and 95% destruction efficiency of the control equipment when EU 58, EU 59, EU 60, EU 62, EU 63, EU 64, EU 84, EU 89, EU 96, and EU 113 vent through EP CO. This VOC limit is a bubble limit for the eleven emission points of EU 58, EU 59, EU 60, EU 62, EU 63, EU 64, EU 84, EU 89, EU 96, and EU 113, and EP CO, which shall not be exceeded in any combination in the use of these eleven emission points.

(3) Note: Emission units EU-64 and EU-84 have been removed. The facility will be obtaining modified construction permits to reflect these changes.

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

NESHAP Applicability

1. This emission unit shall comply with all applicable requirements from 40 CFR Part 63, Subpart QQQQ, NESHAP for Surface Coating of Wood Building Products.

Authority for Requirement: IDNR Construction Permit 92-A-562-S6
567 IAC 23.1(4)"cq"

Process Throughput

1. The maximum VOC content of any preservative or mineral spirits added to the Wood Dip – Dry DS Casement Frame (EU 62) shall not exceed 7.0 pounds per gallon.
2. The by-pass stack shall have a device to determine the number of hours that the by-pass stack is open to the atmosphere.

Reporting and Recordkeeping

All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.

1. Record the VOC content of any preservative or mineral spirits added to Wood Dip – Dry DS Casement Frame (EU 62) in pounds per gallon.
2. Record the amount of preservative and mineral spirits added to Wood Dip – Dry DS Casement Frame (EU 62) in gallons on a daily basis.
3. Record the number hours the by-pass stack (EP 62) is open to the atmosphere on a daily basis.
4. Calculate and record the total VOC emissions in tons per month that are emitted through bypass stack EP 62.
5. Calculate and record on a rolling 12 month basis the total emissions from EP 58, EP 59, EP 60, EP 62, EP 63, EP 64, EP 84, EP 89, EP 96, and EP 113, and EP CO to ensure that total emissions are below 50 tons per year limit.

Note: emission units EU-64 and EU-84 have been removed. The facility will be obtaining modified construction permits to reflect these changes.

Authority for Requirement: Iowa DNR Construction Permit 92-A-562-S6

Emission Point Characteristics

This emission point shall conform to the conditions listed below.

Stack Height (feet): 25

Stack Diameter (inches): 12

Stack Exhaust Flow Rate (scfm): 1800

Stack Temperature (°F): 70

Discharge Style: Unobstructed Vertical

Authority for Requirement: Iowa DNR Construction Permit 92-A-562-S6

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Compliance Assurance Monitoring (CAM) Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 63 (Bypass Stack)

Associated Equipment

Associated Emission Unit ID Number: 63

Emission Unit vented through this Emission Point: 63
Emission Unit Description: Wood Preservative Dip Tank
Raw Material/Fuel: Wood Preservative
Rated Capacity: 1,500 parts/hr

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity

Emission Limit(s): 40%⁽¹⁾

Authority for Requirement: Iowa DNR Construction Permit 92-A-563-S6
567 IAC 23.3(2)"d"

⁽¹⁾ An exceedance of the indicator opacity of (10%) will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: Particulate Matter

Emission Limit(s): 0.01 gr/dscf

Authority for Requirement: Iowa DNR Construction Permit 92-A-563-S6
567 IAC 23.4(13)

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): 50 Tons/yr⁽²⁾⁽³⁾

Authority for Requirement: Iowa DNR Construction Permit 92-A-563-S6

(2) Limit based on operating limits and 95% destruction efficiency of the control equipment when EU 58, EU 59, EU 60, EU 62, EU 63, EU 64, EU 84, EU 89, EU 96, and EU 113 vent through EP CO. This VOC limit is a bubble limit for the eleven emission points of EU 58, EU 59, EU 60, EU 62, EU 63, EU 64, EU 84, EU 89, EU 96, and EU 113, and EP CO, which shall not be exceeded in any combination in the use of these eleven emission points.

(3) Note: Emission units EU-64 and EU-84 have been removed. The facility will be obtaining modified construction permits to reflect these changes.

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

NESHAP Applicability

1. This emission unit shall comply with all applicable requirements from 40 CFR Part 63, Subpart QQQQ, NESHAP for Surface Coating of Wood Building Products.

Authority for Requirement: IDNR Construction Permit 92-A-563-S6
567 IAC 23.1(4)"cq"

Process Throughput

1. The maximum VOC content of any preservative or mineral spirits added to the Wood Dip – Dry Casement Sash (EU 63) shall not exceed 7.0 pounds per gallon.
2. The by-pass stack shall have a device to determine the number of hours that the by-pass stack is open to the atmosphere.

All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.

1. Record the VOC content of any preservative or mineral spirits added to Wood Dip – Dry Casement Sash (EU 63) in pounds per gallon.
2. Record the amount of preservative and mineral spirits added to Wood Dip – Dry Casement Sash (EU 63) in gallons on a daily basis.
3. Record the number hours the by-pass stack (EP 63) is open to the atmosphere on a daily basis.
4. Calculate and record the total VOC emissions in tons per month that are emitted through bypass stack EP 63.
5. Calculate and record on a rolling 12 month basis the total emissions from EP 58, EP 59, EP 60, EP 62, EP 63, EP 64, EP 84, EP 89, EP 96, and EP 113, and EP CO to ensure that total emissions are below 50 tons per year limit.

Note: Emission units EU-64 and EU-84 have been removed. The facility will be obtaining modified construction permits to reflect these changes.

Authority for Requirement: Iowa DNR Construction Permit 92-A-563-S6

Emission Point Characteristics

This emission point shall conform to the conditions listed below.

Stack Height (feet): 25

Stack Diameter (inches): 12

Stack Exhaust Flow Rate (scfm): 1000

Stack Temperature (°F): 70

Discharge Style: Unobstructed Vertical

Authority for Requirement: Iowa DNR Construction Permit 92-A-563-S6

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Compliance Assurance Monitoring (CAM) Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 68A

Associated Equipment

Associated Emission Unit ID Number: 68A

Emission Unit vented through this Emission Point: 68A

Emission Unit Description: Hand-Held Paint Spray Booth from EU-68

Raw Material/Fuel: Paint and Thinner

Rated Capacity: 15 gal./hr

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity

Emission Limit(s): 40%⁽¹⁾

Authority for Requirement: Iowa DNR Construction Permit 92-A-645-S7
567 IAC 23.3(2)"d"

1. An exceedance of the indicator opacity of (no visible emissions) will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: PM₁₀

Emission Limit(s): 0.12 lb/hr

Authority for Requirement: Iowa DNR Construction Permit 92-A-645-S7

Pollutant: Particulate Matter

Emission Limit(s): 0.01 gr./dscf

Authority for Requirement: Iowa DNR Construction Permit 92-A-645-S7
567 IAC 23.4(13)

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): 60 Tons/yr⁽²⁾

Authority for Requirement: Iowa DNR Construction Permit 92-A-645-S7

⁽²⁾Bubble limit to be a synthetic minor for PSD. This is a bubble limit set on EU-35, EU-37, EU-38, EU-68 and EU-110. A limit of 39.4 tpy was set during project number 02-610 to be a synthetic minor for PSD in December 2002, when emission units EU-35, EU-37, EU-38 and EU-68 were all relocated and replaced (including spray guns). The limit was increased to 60 tpy during project number 04-224 in June 2005 through re-evaluating the netting in the contemporaneous period used for project 02-610.

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

NESHAP Applicability

1. This emission unit shall comply with all applicable requirements from 40 CFR Part 63, Subpart M, NESHAP for Surface Coating of Miscellaneous Metal Parts & Products.

Authority for Requirement: IDNR Construction Permit 92-A-645-S7
567 IAC 23.1(4)"cm"

Process Throughput:

1. The hand-held paint spray booth is limited to using a maximum of 2 spray guns simultaneously within this booth.

Reporting and Recordkeeping:

All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.

1. The facility shall keep records of the amount of material consumed by quantifying the amount of gallons used in emission units EU-35, EU-37, EU-38, EU-68 and EU-110 on a daily basis.
2. Record VOCs and solids content in pounds per gallon for each painting material used in the booth.
3. The facility shall keep records on a rolling 12 month basis in the amount of VOCs emitted by the emission units EU-35, EU-37, EU-38, EU-68 and EU-110 in tons per year.
4. The MSDS of each material used at the facility shall be kept on site and available for inspection.

Authority for Requirement: Iowa DNR Construction Permit 92-A-645-S7

Emission Point Characteristics

This emission point shall conform to the conditions listed below.

Stack Height (feet): 54

Stack Diameter (inches): 30.5

Stack Exhaust Flow Rate (scfm): 5,500 to 6,000

Stack Temperature (°F): ambient

Discharge Style: Vertical Unobstructed

Authority for Requirement: Iowa DNR Construction Permit 92-A-645-S7

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Stack Testing:

Pollutant - PM₁₀

1st Stack Test to be Completed by (date) - within the first two years of permit issuance

Test Method - 40 CFR Part 60 App. A, Method 5

Authority for Requirement - 567 IAC 22.108(3)

The owner of this equipment or the owner's authorized agent shall provide a written notice to the Director, not less than 30 days before a required stack test or performance evaluation of a continuous emission monitor. Results of the test shall be submitted in writing to the director in the form of a comprehensive report within 6 weeks of the completion of the testing 567 IAC 25.1(7)

Agency Approved Operation & Maintenance Plan Required? Yes ☒ No ☐

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Compliance Assurance Monitoring (CAM) Plan Required? Yes ☐ No ☒

Agency Paint Booth Operation and Maintenance Plan

Weekly

- Inspect the paint booth system for conditions that reduce the operating efficiency of the collection system. This will include a visual inspection of the condition of the filter material.
- Maintain a written record of the observation and any action resulting from the inspection.

Record Keeping and Reporting

Maintenance and inspection records will be kept for five years and available upon request.

Quality Control

- The filter equipment will be operated and maintained according to the manufacturers recommendations.

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 68B

Associated Equipment

Associated Emission Unit ID Number: 68B

Emission Unit vented through this Emission Point: 68B

Emission Unit Description: Hand-Held Paint Spray Booth from EU-68

Raw Material/Fuel: Paint and Thinner

Rated Capacity: 15 gal./hr

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity

Emission Limit(s): 40%⁽¹⁾

Authority for Requirement: Iowa DNR Construction Permit 02-A-910-S2
567 IAC 23.3(2)"d"

⁽¹⁾ An exceedance of the indicator opacity of (no visible emissions) will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: PM₁₀

Emission Limit(s): 0.12 lb/hr

Authority for Requirement: Iowa DNR Construction Permit 02-A-910-S2

Pollutant: Particulate Matter

Emission Limit(s): 0.01 gr./dscf

Authority for Requirement: Iowa DNR Construction Permit 02-A-910-S2
567 IAC 23.4(13)

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): 60.0 Tons/yr⁽³⁾

Authority for Requirement: Iowa DNR Construction Permit 02-A-910-S2

⁽³⁾ Bubble limit to be a synthetic minor for PSD. This is a bubble limit set on EU-35, EU-37, EU-38, EU-68 and EU-110. A limit of 39.4 tpy was set during project number 02-610 to be a synthetic minor for PSD in December 2002, when emission units EU-35, EU-37, EU-38 and EU-68 were all relocated and replaced (including spray guns). The limit was increased to 60 tpy during project number 04-224 in June 2005 through re-evaluating the netting in the contemporaneous period used for project 02-610.

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

NESHAP Applicability

1. This emission unit shall comply with all applicable requirements from 40 CFR Part 63, Subpart M, NESHAP for Surface Coating of Miscellaneous Metal Parts & Products.

Authority for Requirement: IDNR Construction Permit 02-A-910-S2
567 IAC 23.1(4)"cm"

Process Throughput:

1. The hand-held paint spray booth is limited to using a maximum of 2 spray guns simultaneously within this booth.

Reporting and Recordkeeping:

All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.

1. The facility shall keep records of the amount of material consumed by quantifying the amount of gallons used in emission units (EU-35, EU-37, EU-38, EU-68, and EU-110) on a daily basis.
2. Record VOCs and solids content in pounds per gallon for each painting material used in the booth.
3. The facility shall keep records on a rolling 12-month basis in the amount of VOCs emitted by the emission units (EU-35, EU-37, EU-38, EU-68, and EU-110) in tons per year.
4. The MSDS of each material used at the facility shall be kept on-site and available for inspection by the IDNR.

Authority for Requirement: Iowa DNR Construction Permit 02-A-910-S2

Emission Point Characteristics

This emission point shall conform to the conditions listed below.

Stack Height (feet): 43

Stack Diameter (inches): 26

Stack Exhaust Flow Rate (scfm): 8,100

Stack Temperature (°F): ambient

Discharge Style: Vertical Unobstructed

Authority for Requirement: Iowa DNR Construction Permit 02-A-910-S2

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Stack Testing:

Pollutant - PM₁₀

1st Stack Test to be Completed by (date) - within first two years of permit term

Test Method - 40 CFR 51, Appendix M, 201A with 202

Authority for Requirement - 567 IAC 22.108(3)

The owner of this equipment or the owner's authorized agent shall provide a written notice to the Director, not less than 30 days before a required stack test or performance evaluation of a continuous emission monitor. Results of the test shall be submitted in writing to the director in the form of a comprehensive report within 6 weeks of the completion of the testing 567 IAC 25.1(7)

Agency Approved Operation & Maintenance Plan Required? Yes ☒ No ☐

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Compliance Assurance Monitoring (CAM) Plan Required? Yes ☐ No ☒

Agency Paint Booth Operation and Maintenance Plan

Weekly

- Inspect the paint booth system for conditions that reduce the operating efficiency of the collection system. This will include a visual inspection of the condition of the filter material.
- Maintain a written record of the observation and any action resulting from the inspection.

Record Keeping and Reporting

Maintenance and inspection records will be kept for five years and available upon request.

Quality Control

- The filter equipment will be operated and maintained according to the manufacturers recommendations.

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 69

Associated Equipment

Associated Emission Unit ID Number: 69
Emissions Control Equipment ID Number: CE 69
Emissions Control Equipment Description: Baghouse

Emission Unit vented through this Emission Point: 69
Emission Unit Description: Woodworking Operations
Raw Material/Fuel: Wood
Rated Capacity: 4200 Mcf/hr

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity

Emission Limit(s): 40%⁽¹⁾

Authority for Requirement: Iowa DNR Construction Permit 98-A-386-S3
567 IAC 23.3(2)"d"

⁽¹⁾ An exceedance of the indicator opacity of (no visible emissions) will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: PM₁₀

Emission Limit(s): 1.26 lb/hr

Authority for Requirement: Iowa DNR Construction Permit 98-A-386-S3

Pollutant: Particulate Matter

Emission Limit(s): 5.0 lb/hr⁽²⁾, 0.1 gr./dscf

Authority for Requirement: Iowa DNR Construction Permit 98-A-386-S3
567 IAC 23.3(2)"a"

⁽²⁾ Limit established as requested by facility to limit PTE.

Emission Point Characteristics

This emission point shall conform to the conditions listed below.

Stack Height (feet): 47

Stack Diameter (inches): 54 x 63.5

Stack Exhaust Flow Rate (scfm): 70,000

Stack Temperature (°F): Ambient

Discharge Style: Horizontal

Authority for Requirement: Iowa DNR Construction Permit 98-A-386-S3

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Stack Testing:

Pollutant - PM₁₀

1st Stack Test to be Completed by (date) - within first two years of permit term

Test Method - 40 CFR 51, Appendix M, 201A with 202

Authority for Requirement - 567 IAC 22.108(3)

Stack Testing:

Pollutant - Particulate Matter

1st Stack Test to be Completed by (date) - within first two years of permit term

Test Method - Iowa Compliance Sampling Manual Method 5

Authority for Requirement - 567 IAC 22.108(3)

The owner of this equipment or the owner's authorized agent shall provide written notice to the Director, not less than 30 days before a required stack test or performance evaluation of a continuous emission monitor. Results of the test shall be submitted in writing to the Director in the form of a comprehensive report within 6 weeks of the completion of the testing. 567 IAC 25.1(7)

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☒ No ☐

Compliance Assurance Monitoring (CAM) Plan Required? Yes ☐ No ☒

Facility operation and maintenance plans must be sufficient to yield reliable data from the relevant time period that are representative of the source's compliance with the applicable requirements.

Facility operation and maintenance plans are to be developed by the facility within six(6) months of the issuance date of this permit and the data pertaining to the plan maintained on site for at least 5 years. The plan and associated recordkeeping provides documentation of this facility's implementation of its obligation to operate according to good air pollution control practice.

Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 71

Associated Equipment

Associated Emission Unit ID Number: 71
Emissions Control Equipment ID Number: CE 71
Emission Control Equipment Description: Baghouse

Emission Unit vented through this Emission Point: 71
Emission Unit Description: Woodworking Operations
Raw Material/Fuel: Wood
Rated Capacity: 1920 Mcf/hr

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit(s): 40%⁽¹⁾
Authority for Requirement: 567 IAC 23.3(2)"d"

Pollutant: Particulate Matter
Emission Limit(s): 0.1 gr./dscf
Authority for Requirement: 567 IAC 23.3(2)"a"

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

The stack test for EP 69 will satisfy the periodic monitoring stack test requirements for this emission point.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Compliance Assurance Monitoring (CAM) Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: A2F (Internal Fugitive Emissions Area #2)

Associated Equipment

Associated Emission Unit ID Number: 72

Emissions Control Equipment ID Number: CE-72A and CE-72B

Emissions control Equipment Description: Cyclone and Baghouse

Emission Unit vented through this Emission Point: 72

Emission Unit Description: Woodworking Operations

Raw Material/Fuel: Wood

Rated Capacity: 780 Mcf/hr

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity

Emission Limit(s): 40%⁽¹⁾

Authority for Requirement: 567 IAC 23.3(2)"d"

Pollutant: Particulate Matter

Emission Limit(s): 0.1 gr./dscf

Authority for Requirement: 567 IAC 23.3(2)"a"

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Compliance Assurance Monitoring (CAM) Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 74A

Associated Equipment

Associated Emission Unit ID Number: 74A
Emissions Control Equipment ID Number: None
Emissions Control Equipment Description: None

Emission Unit vented through this Emission Point: 74A
Emission Unit Description: Pretreatment System
Raw Material/Fuel:
Rated Capacity: 22.1 Gal/Min

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity

Emission Limit(s): 40%⁽¹⁾

Authority for Requirement: Iowa DNR Construction Permit 04-A-1012
567 IAC 23.3(2)"d"

⁽¹⁾ An exceedance of the indicator opacity of (10%) will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: PM₁₀

Emission Limit(s): 0.30 lb/hr⁽²⁾

Authority for Requirement: Iowa DNR Construction Permit 04-A-1012

⁽²⁾ Total emissions for EP 74A and EP 74B

Pollutant: Particulate Matter

Emission Limit(s): 0.01 gr./dscf

Authority for Requirement: Iowa DNR Construction Permit 04-A-1012
567 IAC 23.4(13)

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

NESHAP Applicability

1. This emission unit shall comply with all applicable requirements from 40 CFR Part 63, Subpart DDDDD, NESHAP for Commercial, Industrial, and Institutional Boilers and Process Heaters.

Authority for Requirement: IDNR Construction Permit 04-A-1012
567 IAC 23.1(4)"dd"

Emission Point Characteristics

This emission point shall conform to the conditions listed below.

Stack Height (feet): 10

Stack Diameter (inches): 26

Stack Exhaust Flow Rate (scfm): 6,900

Stack Temperature (°F): 120

Discharge Style: Vertical Unobstructed

Authority for Requirement: Iowa DNR Construction Permit 04-A-1012

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Compliance Assurance Monitoring (CAM) Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 74B

Associated Equipment

Associated Emission Unit ID Number: 74B
Emissions Control Equipment ID Number: None
Emissions Control Equipment Description: None

Emission Unit vented through this Emission Point: 74B
Emission Unit Description: Pretreatment System
Raw Material/Fuel:
Rated Capacity: 22.1 Gal/Min

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity

Emission Limit(s): 40%⁽¹⁾

Authority for Requirement: Iowa DNR Construction Permit 04-A-1013
567 IAC 23.3(2)"d"

⁽¹⁾ An exceedance of the indicator opacity of (10%) will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: PM₁₀

Emission Limit(s): 0.30lb/hr⁽²⁾

Authority for Requirement: Iowa DNR Construction Permit 04-A-1013

⁽²⁾ Total emissions for EP 74A and EP 74B

Pollutant: Particulate Matter

Emission Limit(s): 0.01 gr./dscf

Authority for Requirement: Iowa DNR Construction Permit 04-A-1013
567 IAC 23.4(13)

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

NESHAP Applicability

1. This emission unit shall comply with all applicable requirements from 40 CFR Part 63, Subpart DDDDD, NESHAP for Industrial, commercial, and Institutional Boilers and Process Heaters

Authority for Requirement: IDNR Construction Permit 04-A-1013
567 IAC 23.1(4)"dd"

Emission Point Characteristics

This emission point shall conform to the conditions listed below.

Stack Height (feet): 10

Stack Diameter (inches): 26

Stack Exhaust Flow Rate (scfm): 6,900

Stack Temperature (°F): 120

Discharge Style: Vertical Unobstructed

Authority for Requirement: Iowa DNR Construction Permit 04-A-1013

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements

The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Compliance Assurance Monitoring (CAM) Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 76

Associated Equipment

Associated Emission Unit ID Number: 76

Emission Unit vented through this Emission Point: 76

Emission Unit Description: Hog-Wood Bin

Raw Material/Fuel: Sawdust

Rated Capacity: NA

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity

Emission Limit(s): 40%⁽¹⁾

Authority for Requirement: Iowa DNR Construction Permit 01-A-995-S1
567 IAC 23.3(2)"d"

⁽¹⁾ An exceedance of the indicator opacity of no visible emissions will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: PM₁₀

Emission Limit(s): 3.0 lb/hr

Authority for Requirement: Iowa DNR Construction Permit 01-A-995-S1

Pollutant: Particulate Matter

Emission Limit(s): 0.1 gr./dscf

Authority for Requirement: Iowa DNR Construction Permit 01-A-995-S1
567 IAC 23.3(2)"a"

Emission Point Characteristics

This emission point shall conform to the conditions listed below.

Stack Height (feet): 24

Stack Diameter (inches): Vents internally through screw conveyor

Stack Exhaust Flow Rate (scfm): Displacement air/breathing losses

Stack Temperature (°F): Ambient

Discharge Style: Vents internally through screw conveyor

Authority for Requirement: Iowa DNR Construction Permit 01-A-995-S1

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Compliance Assurance Monitoring (CAM) Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 77

Associated Equipment

Associated Emission Unit ID Number: 77

Applicable Requirements

(If more than one emission unit vents through this emission point subdivide the applicable requirements by emission unit.)

Emission Unit vented through this Emission Point: 77

Emission Unit Description: Peabody Tee Tank Sawdust Silo

Raw Material/Fuel: Sawdust

Rated Capacity: NA

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity

Emission Limit(s): 40%⁽¹⁾

Authority for Requirement: Iowa DNR Construction Permit 01-A-996-S1
567 IAC 23.3(2)"d"

⁽¹⁾ An exceedance of the indicator opacity of no visible emissions will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: PM₁₀

Emission Limit(s): 3.0 lb/hr

Authority for Requirement: Iowa DNR Construction Permit 01-A-996-S1

Pollutant: Particulate Matter

Emission Limit(s): 0.1 gr./dscf

Authority for Requirement: Iowa DNR Construction Permit 01-A-996-S1
567 IAC 23.3(2)"a"

Emission Point characteristics

This emission point shall conform to the conditions listed below.

Stack Height (feet): 72

Stack Diameter (inches): Vents internally through screw conveyor

Stack Exhaust Flow Rate (scfm): Displacement air/breathing losses

Stack Temperature (°F): Ambient

Discharge Style: Vents Internally

Authority for Requirement: Iowa DNR Construction Permit 01-A-996-S1

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Compliance Assurance Monitoring (CAM) Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: Internally Vented 1

Associated Equipment

Associated Emission Unit ID Numbers (if multiple units vent thru this EP): Fug-1, Fug-2, and Fug-3

Emission Unit vented through this Emission Point: IV -1

Emission Unit Description: Parts Washers

Raw Material/Fuel: Solvent

Rated Capacity: 0.63 gal./hr

Emission Unit vented through this Emission Point: IV-2

Emission Unit Description: Sealant Application

Raw Material/Fuel: Sealant

Rated Capacity: 10.34 gal./hr

Emission Unit vented through this Emission Point: IV-3

Emission Unit Description: Make Up Air Units

Raw Material/Fuel: Natural Gas

Rated Capacity: 24.8 MMBtu/hr

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

No Applicable Requirements

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Compliance Assurance Monitoring (CAM) Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: Surface Apps. (Internally Vented)

Associated Equipment

Associated Emission Unit ID Numbers (if multiple units vent thru this EP): Surface Apps.

Applicable Requirements

(If more than one emission unit vents through this emission point subdivide the applicable requirements by emission unit.)

Emission Unit vented through this Emission Point: Surface Apps.

Emission Unit Description: Surface Application of Chemicals

Raw Material/Fuel: Sealants, Adhesives, and like chemicals

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

No Applicable Requirements

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Compliance Assurance Monitoring (CAM) Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 86

Associated Equipment

Associated Emission Unit ID Number: 86

Emissions Control Equipment ID Number: 86A and 86B

Emissions Control Equipment Description: Cyclone and Fabric Filter

Emission Unit vented through this Emission Point: 86

Emission Unit Description: Wood Dust System

Raw Material/Fuel: Wood

Rated Capacity: 68,000 scfm

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity

Emission Limit(s): 40%⁽¹⁾

Authority for Requirement: Iowa DNR Construction Permit 99-A-189-S3
567 IAC 23.3(2)"d"

⁽¹⁾ An exceedance of the indicator opacity of (no visible emissions) will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: PM-10

Emission Limit(s): 0.83 lb/hr

Authority for Requirement: Iowa DNR Construction Permit 99-A-189-S3

Pollutant: Particulate Matter

Emission Limit(s): 11.14 lb/hr, 0.1 gr/scf

Authority for Requirement: Iowa DNR Construction Permit 99-A-189-S3
567 IAC 23.3(2)"a"

Emission Point Characteristics

This emission point shall conform to the conditions listed below.

Stack Height (feet): 47

Stack Diameter (inches): 54

Stack Exhaust Flow Rate (scfm): 68,000

Stack Temperature (°F): Ambient

Discharge Style: Horizontal

Authority for Requirement: Iowa DNR Construction Permit 99-A-189-S3

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Stack Testing:

Pollutant - PM₁₀

1st Stack Test to be Completed by (date) - within first two years of permit term

Test Method - 40 CFR 51, Appendix M, 201A with 202

Authority for Requirement - 567 IAC 22.108(3)

Stack Testing:

Pollutant - Particulate Matter

1st Stack Test to be Completed by (date) - within first two years of permit term

Test Method - Iowa Compliance Sampling Manual Method 5

Authority for Requirement - 567 IAC 22.108(3)

The owner of this equipment or the owner's authorized agent shall provide written notice to the Director, not less than 30 days before a required stack test or performance evaluation of a continuous emission monitor. Results of the test shall be submitted in writing to the Director in the form of a comprehensive report within 6 weeks of the completion of the testing. 567 IAC 25.1(7)

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☒ No ☐

Compliance Assurance Monitoring (CAM) Plan Required? Yes ☐ No ☒

Facility operation and maintenance plans must be sufficient to yield reliable data from the relevant time period that are representative of the source's compliance with the applicable requirements.

Facility operation and maintenance plans are to be developed by the facility within six(6) months of the issuance date of this permit and the data pertaining to the plan maintained on site for at least 5 years. The plan and associated recordkeeping provides documentation of this facility's implementation of its obligation to operate according to good air pollution control practice.

Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 88

Associated Equipment

Associated Emission Unit ID Number: 88

Emissions Control Equipment ID Number: 88A and 88B

Emissions Control Equipment Description: Cyclone and Fabric Filter

Emission Unit vented through this Emission Point: 88

Emission Unit Description: Wood Dust System

Raw Material/Fuel: Wood

Rated Capacity: 68,000 scfm

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity

Emission Limit(s): 40%⁽¹⁾

Authority for Requirement: Iowa DNR Construction Permit 00-A-017-S2
567 IAC 23.3(2)"d"

⁽¹⁾ An exceedance of the indicator opacity of (no visible emissions) will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: PM₁₀

Emission Limit(s): 1.08 lb/hr

Authority for Requirement: Iowa DNR Construction Permit 00-A-017-S2

Pollutant: Particulate Matter

Emission Limit(s): 5.57 lb/hr, 0.1 gr/scf

Authority for Requirement: Iowa DNR Construction Permit 00-A-017-S2
567 IAC 23.3(2)"a"

Emission Point Characteristics

This emission point shall conform to the conditions listed below.

Stack Height (feet): 34

Stack Diameter (inches): 54

Stack Exhaust Flow Rate (scfm): 68,000

Stack Temperature (°F): Ambient

Discharge Style: Horizontal

Authority for Requirement: Iowa DNR Construction Permit 00-A-017-S2

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

The stack test for EP 86 will satisfy the periodic monitoring stack test requirements for this emission point.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☒ No ☐

Compliance Assurance Monitoring (CAM) Plan Required? Yes ☐ No ☒

Facility operation and maintenance plans must be sufficient to yield reliable data from the relevant time period that are representative of the source's compliance with the applicable requirements.

Facility operation and maintenance plans are to be developed by the facility within six(6) months of the issuance date of this permit and the data pertaining to the plan maintained on site for at least 5 years. The plan and associated recordkeeping provides documentation of this facility's implementation of its obligation to operate according to good air pollution control practice.

Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 89 (Bypass Stack)

Associated Equipment

Associated Emission Unit ID Numbers (if multiple units vent thru this EP): 89

Emission Unit vented through this Emission Point: 89

Emission Unit Description: Wood Dip-Dry

Raw Material/Fuel: wood preservative

Rated Capacity: 700 parts/yr

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity

Emission Limit(s): 40%⁽¹⁾

Authority for Requirement: Iowa DNR Construction Permit 00-A-011-S2
567 IAC 23.3(2)"d"

⁽¹⁾ An exceedance of the indicator opacity of (10%) will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: Particulate Matter

Emission Limit(s): 0.01 gr/scf

Authority for Requirement: Iowa DNR Construction Permit 00-A-011-S2
567 IAC 23.4(13)

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): 50 ton/year⁽²⁾

Authority for Requirement: Iowa DNR Construction Permit 00-A-011-S2

(2) Limit based on operating limits and 95% destruction efficiency of the control equipment when EU 58, EU 59, EU 60, EU 62, EU 63, EU 64, EU 84, EU 96, and EU 113 vent through CO. This VOC limit is a bubble limit for the eleven emission points of EU 58, EU 59, EU 60, EU 62, EU 63, EU 64, EU 84, EU 89 EU 96, EU 113 and EP CO, which shall not be exceeded in any combination in the use of these eleven emission points.

Note: Emission units EU-64 and EU-84 have been removed. The facility will be obtaining modified construction permits to reflect these changes.

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

1. The maximum VOC content of any preservative or mineral spirits added to the Wood Dip – Dry DH Jambs (EU 89) shall not exceed 7.0 pounds per gallon.
2. The by-pass stack shall have a device to determine the number of hours that the by-pass stack is open to the atmosphere.

All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.

1. Record the VOC content of any preservative or mineral spirits added to Wood Dip – Dry DH Jambs (EU 89) in pounds per gallon.
2. Record the amount of preservative and mineral spirits added to Wood Dip – Dry DH Jambs (EU 89) in gallons on a daily basis.
3. Record the number hours the by-pass stack (EP 89) is open to the atmosphere on a daily basis.
4. Calculate and record the total VOC emissions in tons per month that are emitted through bypass stack EP 89.
5. Calculate and record on a rolling 12 month basis the total emissions from EP 58, EP 59, EP 60, EP 62, EP 63, EP 64, EP 84, EP 89, EP 96, and EP 113, and EP CO to ensure that total emissions are below 50 tons per year limit.

Note: Emission units EU-64 and EU-84 have been removed. The facility will be obtaining modified construction permits to reflect these changes.

Authority for Requirement: Iowa DNR Construction Permit 00-A-011-S2

Emission Point Characteristics

This emission point shall conform to the conditions listed below.

Stack Height (feet): 28

Stack Diameter (inches): 8

Stack Exhaust Flow Rate (scfm): 1000

Stack Temperature (°F): 70

Discharge Style: Unobstructed Vertical

Authority for Requirement: Iowa DNR Construction Permit 00-A-011-S2

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Compliance Assurance Monitoring (CAM) Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 90

Associated Equipment

Associated Emission Unit ID Number: 90
Emissions Control Equipment ID Number: 90
Emissions Control Equipment Description: Dry Filter

Emission Unit vented through this Emission Point: 90
Emission Unit Description: Research & Development Paint Booth
Raw Material/Fuel: Paint
Rated Capacity: 1500 gal/yr

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity

Emission Limit(s): 40%⁽¹⁾

Authority for Requirement: Iowa DNR Construction Permit 00-A-182-S6
567 IAC 23.3(2)"d"

⁽¹⁾ An exceedance of the indicator opacity of (10%) will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: PM-10

Emission Limit(s): 0.48 lb/hr

Authority for Requirement: Iowa DNR Construction Permit 00-A-182-S6

Pollutant: Particulate Matter

Emission Limit(s): 0.01 gr/dscf

Authority for Requirement: Iowa DNR Construction Permit 00-A-182-S6
567 IAC 23.4(13)

Pollutant: Total Hazardous Air Pollutant (HAP)

Emission Limit(s): 231 g HAP/l solids ⁽²⁾ ⁽³⁾

Authority for Requirement: Iowa DNR Construction Permit 00-A-182-S6
567 IAC 23.1(4)"cq"

⁽²⁾ 231 grams of HAP/liter of solids = 1.93 lb of HAP/gallon of solids.

⁽³⁾ Determined as a rolling 12-month emission rate.

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

NESHAP Applicability

2. This emission unit shall comply with all applicable requirements from 40 CFR Part 63, Subpart QQQQ, NESHAP for Surface Coating of Wood Building Products.

Authority for Requirement: IDNR Construction Permit 00-A-182-S6
567 IAC 23.1(4)"cq"

Process Throughput:

1. The maximum VOC content of any surface coating materials⁽¹⁾ used shall not exceed 7.0 lb/gallon.
2. The total quantity of surface coating materials used in the emission units associated with this permit shall not exceed 1500 gallons per rolling twelve (12) month period.

⁽¹⁾ Surface coating material is defined as paints, solvents, lacquers, and any other liquids used for surface coating products at the facility.

Reporting and Recordkeeping:

All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.

1. The permit holder, owner and operator of the facility shall record the VOC content, in lbs/gallon, for each surface coating material used.
2. The permit holder, owner and operator of the facility shall determine and record the cumulative amount of surface coating material used in the emission units associated with this permit on a rolling-12-month basis for each month of operation.
3. The permit holder, owner and operator of the facility shall perform monitoring for NESHAP Subpart QQQQ at the facility (Plant Number 63-02-003) per the subpart.
4. The permit holder, owner and operator of the facility shall perform recordkeeping for NESHAP Subpart QQQQ at the facility (Plant Number 63-02-003) per the subpart.
5. Maintain MSDS sheets for all surface coating materials used.

Authority for Requirement: Iowa DNR Construction Permit 00-A-182-S6

Emission Point Characteristics

This emission point shall conform to the conditions listed below.

Stack Height (feet): 27

Stack Diameter (inches): 14

Stack Exhaust Flow Rate (scfm): 2,000 - 5,500

Stack Temperature (°F): 120

Discharge Style: Horizontal

Authority for Requirement: Iowa DNR Construction Permit 00-A-182-S6

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Compliance Assurance Monitoring (CAM) Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 91

Associated Equipment

Associated Emission Unit ID Number: 91

Emission Unit vented through this Emission Point: 91
Emission Unit Description: Infrared Dry Off Electric Oven
Raw Material/Fuel: Paint

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Total HAP

Emission Limit(s): 231 g HAP/l solids⁽¹⁾⁽²⁾

Authority for Requirement: Iowa DNR Construction Permit 00-A-183-S1
567 IAC 23.1(4)"cq"

⁽¹⁾ 231 grams of HAP/liter of solids = 1.93 lb of HAP/gallon of solids.

⁽²⁾ Determined as a rolling 12-month emission rate

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

NESHAP Applicability

1. This emission unit shall comply with all applicable requirements from 40 CFR Part 63, Subpart QQQQ NESHAP for the Surface Coating of Wood Building Products.

Authority for Requirement: IDNR Construction Permit 00-A-183-S1
567 IAC 23.1(4)"cq"

Emission Point Characteristics

This emission point shall conform to the conditions listed below.

Stack Height (feet): 27

Stack Diameter (inches): 6

Stack Exhaust Flow Rate (scfm): 2000

Stack Temperature (°F): 120

Discharge Style: Horizontal

Authority for Requirement: Iowa DNR Construction Permit 00-A-183-S1

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Compliance Assurance Monitoring (CAM) Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 93

Associated Equipment

Associated Emission Unit ID Numbers: 93

Emissions Control Equipment ID Number: 93

Emissions Control Equipment Description: Dry Filters

Emission Unit vented through this Emission Point: 93

Emission Unit Description: Model Shop Paint Spray Booth

Raw Material/Fuel: Painting Materials

Rated Capacity: 7.5 gal/hr

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity

Emission Limit(s): 40%⁽¹⁾

Authority for Requirement: Iowa DNR Construction Permit 00-A-541
567 IAC 23.3(2) "d"

⁽¹⁾ An exceedance of the indicator opacity of (no visible emissions) will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: PM-10

Emission Limit(s): 0.72 lb/hr

Authority for Requirement: Iowa DNR Construction Permit 00-A-541

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.01 gr/dscf

Authority for Requirement: Iowa DNR Construction Permit 00-A-541
567 IAC 23.4(13)

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Process Throughput:

- 1) Only one (1) paint spray gun with the maximum spray capacity equal to or less than 16 fl oz/min shall be operated in this booth at one time.
- 2) The maximum VOC content of any painting materials used in this booth is limited to no more than 8.00 lb/gal.
- 3) All painting materials used in this booth are limited to 2400 gallons per 12-month rolling period. Material is defined as paints, solvents, lacquers, and any other liquids used for surface coating products at the facility.
- 4) The maximum solid content of any painting material used in this booth is limited to no more than 10.00 pounds per gallon.

The owner or operator of the equipment may use the **VOCs/HAPs Emission Record Form for Paint Facilities** in Appendix A in lieu of the requirements in (2), (3), and (4) above, and (1), (2), (3), and (4) below.

Reporting and Recordkeeping:

All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. These records shall demonstrate compliance with all applicable operating limits. Records shall be legible and maintained in an orderly manner. The owner or operator of the paint booth shall:

- 1) Record VOCs and solids content in lbs/gal for each painting material used in the booth.
- 2) Record monthly usage in gallons/month for each painting material.
- 3) During first 1 month of operation, determine cumulative painting material usage each month of operation.
- 4) After the first 11 months of operation, determine the amount of each painting material used in any 12-month rolling period.
- 5) Record maintenance or replacement of filters.

Authority for Requirement: Iowa DNR Construction Permit 00-A-541

Emission Point Characteristics

This emission point shall conform to the specifications listed below:

Stack Height (feet): 31

Stack Diameter (inches): 27

Stack Exhaust Flow Rate (scfm): 8450

Stack Temperature (°F): Ambient

Discharge Style: Vertical Unobstructed

Authority for Requirement: Iowa DNR Construction Permit 00-A-541

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Compliance Assurance Monitoring (CAM) Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 94

Associated Equipment

Associated Emission Unit ID Number: 94

Emissions Control Equipment ID Number: 94

Emissions Control Equipment Description: Dry Filters

Applicable Requirements

Emission Unit vented through this Emission Point: 94

Emission Unit Description: Clean-up Booth

Raw Material/Fuel: Cleaning Solvent

Rated Capacity: 1,500 gal/yr

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): 5.25 tons/yr ⁽¹⁾

⁽¹⁾ The following permits shall be limited to a total of 5.25 tons/yr VOCs:

- 00-A-182-S4 (EU 90)
- 00-A-550-S2 (EU 94)
- 01-A-396-S1 (EU 97) - (Note: EU 97 has been removed and permit 01-A-396-S1 was rescinded in 2004. Facility will apply for modification to Construction permit 00-A-550-S2)

Authority for Requirement: Iowa DNR Construction Permit 00-A-550-S2

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Process Throughput:

The operating limits apply to the following permits:

00-A-182-S5 (EU 90), 00-A-550-S2 (EU 94) & 01-A-396-S1 (EU 97).

1. The maximum VOC content of any painting materials used shall not exceed 7.0 lb/gallon.
2. The maximum solids content of any painting material shall not exceed 11.0 lb/gallon.

3. The total quantity of painting materials used (for the permits referenced above) shall not exceed 1,500 gallons per twelve-month rolling total. Material is defined as paints, solvents, lacquers, and any other liquids used for surface coating products at the facility.

The owner or operator of the equipment may use the attached **VOCs/HAPs Emissions Record Form for Paint Facilities** in Appendix A in lieu of the requirements in (A), (B) & (C) above, and (A) & (B) below. However, records must be maintained on a daily basis to ensure compliance with the 5.25 tpy VOC bubble limit.

Reporting and Record keeping

All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.

1. Record the VOCs and solids content in lbs/gallon for each painting material used.
2. Record the quantity of spray material used per twelve-month rolling total.
3. Maintain MSDS sheets for all spray materials used.
4. Record maintenance or replacement of filters.

Authority for Requirement: Iowa DNR Construction Permit 00-A-550-S2

Emission Point Characteristics

This emission point shall conform to the specifications listed below.

Stack Height (ft, from the ground): 9

Stack Opening (inches, dia.): 18

Exhaust Flow Rate (scfm): 2000

Exhaust Temperature (°F): Ambient

Discharge Style: Horizontal

Authority for Requirement: Iowa DNR Construction Permit 00-A-550-S2

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Compliance Assurance Monitoring (CAM) Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 96 (Bypass Stack)

Associated Equipment

Associated Emission Unit ID Number: 96

Emission Unit vented through this Emission Point: 96
Emission Unit Description: Casement Dip/Dry
Raw Material/Fuel: Wood Treatment; Mineral Spirits
Rated Capacity: 300 parts/ hr

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity

Emission Limit(s): 40%⁽¹⁾

Authority for Requirement: Iowa DNR Construction Permit 01-A-285-S1
567 IAC 23.3(2) "d"

⁽¹⁾ An exceedance of the indicator opacity of (10%) will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: Particulate Matter

Emission Limit(s): 0.01 gr/scf

Authority for Requirement: Iowa DNR Construction Permit 01-A-285-S1
567 IAC 23.4(13)

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): 50 ton/year⁽²⁾

Authority for Requirement: Iowa DNR Construction Permit 01-A-285-S1

⁽²⁾ Limit based on operating limits and 95% destruction efficiency of the control equipment when EU 58, EU 59, EU 60, EU 62, EU 63, EU 64, EU 84, EU 96, and EU 113 vent through CO. This VOC limit is a bubble limit for the eleven emission points of EU 58, EU 59, EU 60, EU 62, EU 63, EU 64, EU 84, EU 89 EU 96, EU 113 and EP CO, which shall not be exceeded in any combination in the use of these eleven emission points.

Note: Emission units EU-64 and EU-84 have been removed. The facility will be obtaining modified construction permits to reflect these changes.

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

NESHAP Applicability

1. This emission unit shall comply with all applicable requirements from 40 CFR Part 63, Subpart QQQQ NESHAP for the Surface Coating of Wood Building Products.

Authority for Requirement: IDNR Construction Permit 01-A-285-S1
567 IAC 23.1(4)"cq"

Process Throughput

1. The maximum VOC content of any preservative or mineral spirits added to the Wood Impact Glass (EU96) shall not exceed 7.0 pounds per gallon.
2. The bypass stack shall have a device to determine the number of hours that the bypass stack is open to the atmosphere.

All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.

1. Record the VOC content of any preservative or mineral spirits added to Wood Dip – Impact Glass (EU 96) in pounds per gallon.
2. B. Record the amount of preservative and mineral spirits added to Wood Dip – Impact Glass (EU 96) in gallons on a daily basis.
3. C. Record the number hours the by-pass stack (EP 96) is open to the atmosphere on a daily basis.
4. D. Calculate and record the total VOC emissions in tons per month that are emitted through bypass stack EP 96.
5. Calculate and record on a rolling 12 month basis the total emissions from EP 58, EP 59, EP 60, EP 62, EP 63, EP 64, EP 84, EP 89, EP 96, and EP 113, and EP CO to ensure that total emissions are below 50 tons per year limit.

Note: Emission units EU-64 and EU-84 have been removed. The facility will be obtaining modified construction permits to reflect these changes.

Authority for Requirement: Iowa DNR Construction Permit 01-A-285-S1

Emission Point Characteristics

This emission point shall conform to the specifications listed below:

Stack Height (feet): 28

Stack Diameter (inches): 12

Stack Exhaust Flow Rate (scfm): 2,100

Stack Temperature (°F): 70

Discharge Style: Vertical Unobstructed

Authority for Requirement: Iowa DNR Construction Permit 01-A-285-S1

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Compliance Assurance Monitoring (CAM) Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 99

Associated Equipment

Associated Emission Unit ID Number: 99

Emission Unit vented through this Emission Point: 99

Emission Unit Description: R & D UV Cure Oven

Raw Material/Fuel: Painting Materials

Rated Capacity: Electric

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Total HAP

Emission Limit(s): 231 g HAP/l solids⁽¹⁾⁽²⁾

Authority for Requirement: Iowa DNR Construction Permit 01-A-398-S2
567 IAC 23.1(4)"cq"

⁽¹⁾ 231 grams of HAP/liter of solids = 1.93 lb of HAP/gallon of solids.

⁽²⁾ Determined as a rolling 12-month emission rate according to the requirements detailed in 40 CFR 63.4741, 40 CFR 63.4751, or 40 CFR 63.4761, as applicable.

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

NESHAP Applicability

1. This emission unit shall comply with all applicable requirements from 40 CFR Part 63, Subpart QQQQ NESHAP for the Surface Coating of Wood Building Products.

Authority for Requirement: IDNR Construction Permit 01-A-398-S2
567 IAC 23.1(4)"cq"

Emission Point Characteristics

This emission point shall conform to the specifications listed below:

Stack Height (feet): 27

Stack Diameter (inches): 6

Stack Exhaust Flow Rate (scfm): 4238

Stack Temperature (°F): Ambient

Discharge Style: Horizontal

Authority for Requirement: Iowa DNR Construction Permit 01-A-398-S2

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Compliance Assurance Monitoring (CAM) Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 102

Associated Equipment

Associated Emission Unit ID Number: 102
Emissions Control Equipment ID Number: 102
Emissions Control Equipment Description: Baghouse

Emission Unit vented through this Emission Point: 102
Emission Unit Description: Wood Dust System
Raw Material/Fuel: Sawdust
Rated Capacity: 3.60 MMCF/hr

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit(s): 40%⁽¹⁾
Authority for Requirement: Iowa DNR Construction Permit 01-A-1234-S2
567 IAC 23.3(2) "d"

⁽¹⁾ An exceedance of the indicator opacity of (no visible emissions) will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: PM-10
Emission Limit(s): 2.33 lb/hr
Authority for Requirement: Iowa DNR Construction Permit 01-A-1234-S2

Pollutant: Particulate Matter (PM)
Emission Limit(s): 5.57 lb/hr; 0.1 gr/dscf
Authority for Requirement: Iowa DNR Construction Permit 01-A-1234-S2
567 IAC 23.3(2) "a"

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Work Practice Standards:

1. The pollution control equipment shall be maintained according to the manufacturer's specifications.

Reporting and Recordkeeping:

All records as required by this permit shall be kept on site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be kept legible and maintained in an orderly manner.

1. Record the maintenance performed on the control equipment.

Authority for Requirement: Iowa DNR Construction Permit 01-A-1234-S2

Emission Point Characteristics

This emission point shall conform to the specifications listed below:

Stack Height (feet): 34

Stack Diameter (inches): 54

Stack Exhaust Flow Rate (scfm): 68,000

Stack Temperature (°F): Ambient

Discharge Style: Vertical Obstructed

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Authority for Requirement: Iowa DNR Construction Permit 01-A-1234-S2

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Stack Testing:

Pollutant – Particulate Matter

Stack Test to be Completed by (date) – within first two years of permit term

Test Method – Iowa Compliance Sampling Manual Method 5

Authority for Requirement – 567 IAC 22.108(3)

Pollutant – PM₁₀

Stack Test to be Completed by (date) – within first two years of permit term

Test Method – 40 CFR 51, Appendix M, 201A with 202

Authority for Requirement – 567 IAC 22.108(3)

The owner of this equipment or the owner's authorized agent shall provide written notice to the Director, not less than 30 days before a required stack test or performance evaluation of a continuous emission monitor. Results of the test shall be submitted in writing to the Director in the form of a comprehensive report within 6 weeks of the completion of the testing. 567 IAC 25.1(7)

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☒ No ☐

Compliance Assurance Monitoring (CAM) Plan Required? Yes ☐ No ☒

Facility operation and maintenance plans must be sufficient to yield reliable data from the relevant time period that are representative of the source's compliance with the applicable requirements.

Facility operation and maintenance plans are to be developed by the facility within six(6) months of the issuance date of this permit and the data pertaining to the plan maintained on site for at least 5 years. The plan and associated recordkeeping provides documentation of this facility's implementation of its obligation to operate according to good air pollution control practice.

Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 103

Associated Equipment

Associated Emission Unit ID Number: 103

Emission Unit vented through this Emission Point: 103

Emission Unit Description: Pretreatment System

Raw Material/Fuel: Detergents, Sealers

Rated Capacity: 11.6 gallons/min

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity

Emission Limit(s): 40%⁽¹⁾

Authority for Requirement: Iowa DNR Construction Permit 01-A-1341-S1
567 IAC 23.3(2) "d"

⁽¹⁾ An exceedance of the indicator opacity of (10%) will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g. stacktesting).

Pollutant: PM₁₀

Emission Limit(s): 0.15 lb/hr

Authority for Requirement: Iowa DNR Construction Permit 01-A-1341-S1

Pollutant: Particulate Matter (PM)

Emission Limit(s): 1.39 lb/hr⁽³⁾; 0.01 gr/dscf

Authority for Requirement: Iowa DNR Construction Permit 01-A-1341-S1
567 IAC 23.4(13)

⁽³⁾ To be a synthetic minor for PSD over each stack in project (EP 103, EP 104, EP 105 and EP 106).

Pollutant: Chromium

Emission Limit(s): 0.54 lb/hr⁽⁴⁾

Authority for Requirement: Iowa DNR Construction Permit 01-A-1341-S1

⁽⁴⁾ Maximum emission rate allowed for each stack (EP 103, EP 104, EP 105 and EP 106) in order for the project to be minor for Case-by-Case MACT [112(g)] purposes.

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

NESHAP Applicability

3. This emission unit shall comply with all applicable requirements from 40 CFR Part 63, Subpart DDDDD, NESHAP for Industrial, commercial, and Institutional Boilers and Process Heaters

Authority for Requirement: IDNR Construction Permit 01-A-1341-S1
567 IAC 23.1(4)"dd"

Emission Point Characteristics

This emission point shall conform to the specifications listed below:

Stack Height (feet): 40

Stack Diameter (inches): 16

Stack Exhaust Flow Rate (scfm): 4,100

Stack Temperature (°F): 120 - 150

Discharge Style: Vertical Unobstructed

Authority for Requirement: Iowa DNR Construction Permit 01-A-1341-S1

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Compliance Assurance Monitoring (CAM) Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 104

Associated Equipment

Associated Emission Unit ID Number: 104

Emission Unit vented through this Emission Point: 104

Emission Unit Description: Pretreatment System

Raw Material/Fuel: Detergents, Sealers

Rated Capacity: 11.6 gallons/min

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity

Emission Limit(s): 40%⁽¹⁾

Authority for Requirement: Iowa DNR Construction Permit 01-A-1342-S1
567 IAC 23.3(2) "d"

⁽¹⁾ An exceedance of the indicator opacity of (10%) will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g. stacktesting).

Pollutant: PM₁₀

Emission Limit(s): 0.15 lb/hr

Authority for Requirement: Iowa DNR Construction Permit 01-A-1342-S1

Pollutant: Particulate Matter (PM)

Emission Limit(s): 1.39 lb/hr⁽²⁾; 0.01 gr/dscf

Authority for Requirement: Iowa DNR Construction Permit 01-A-1342-S1
567 IAC 23.4(13)

⁽²⁾ Maximum emission rate allowed for each stack (EP 103, EP 104, EP 105 and EP 106) in order for the project to be minor for Case-by-Case MACT [112(g)] purposes.

Pollutant: Chromium

Emission Limit(s): 0.54 lb/hr⁽⁴⁾

Authority for Requirement: Iowa DNR Construction Permit 01-A-1342-S1

⁽⁴⁾ Maximum emission rate allowed for each stack (EPs 103, 104, 105, and 106) in this project in order for the project to be minor for Case-by-Case MACT [112(g)] purposes.

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

NESHAP Applicability

1. This emission unit shall comply with all applicable requirements from 40 CFR Part 63, Subpart DDDDD, NESHAP for Industrial, commercial, and Institutional Boilers and Process Heaters

Authority for Requirement: IDNR Construction Permit 01-A-1342-S1
567 IAC 23.1(4)"dd"

Emission Point Characteristics

This emission point shall conform to the specifications listed below:

Stack Height (feet): 36

Stack Diameter (inches): 16

Stack Exhaust Flow Rate (scfm): 4,100

Stack Temperature (°F): 120 - 150

Discharge Style: Vertical Unobstructed

Authority for Requirement: Iowa DNR Construction Permit 01-A-1342-S1

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Compliance Assurance Monitoring (CAM) Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 105

Associated Equipment

Associated Emission Unit ID Number: 105

Applicable Requirements

Emission Unit vented through this Emission Point: 105

Emission Unit Description: Cooling Tunnel for Pretreatment System

Raw Material/Fuel: Detergents, Sealers

Rated Capacity: 11.6 gallons/min

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity

Emission Limit(s): 40%⁽¹⁾

Authority for Requirement: Iowa DNR Construction Permit 01-A-1343-S1
567 IAC 23.3(2) "d"

⁽¹⁾ An exceedance of the indicator opacity of (10%) will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g. stacktesting)

Pollutant: PM-10

Emission Limit(s): 0⁽²⁾

Authority for Requirement: Iowa DNR Construction Permit 01-A-1343-S1

⁽²⁾ Emissions accounted for in EP 103 and EP 104

Pollutant: Particulate Matter (PM)

Emission Limit(s): 1.39 lb/hr⁽³⁾; 0.1 gr/dscf

Authority for Requirement: Iowa DNR Construction Permit 01-A-1343-S1
567 IAC 23.3(2)"a"

⁽³⁾ To be a synthetic minor for PSD over each stack in project (EP 103, EP 104, EP 105 and EP 106).

Pollutant: Chromium

Emission Limit(s): 0.54 lb/hr⁽⁴⁾

Authority for Requirement: Iowa DNR Construction Permit 01-A-1343-S1

⁽⁴⁾ Maximum emission rate allowed for each stack (EP 103, EP 104, EP 105 and EP 106) in order for the project to be minor for Case-by-Case MACT [112(g)] purposes.

Emission Point Characteristics

This emission point shall conform to the specifications listed below:

Stack Height (feet): 34

Stack Diameter (inches): 38

Stack Exhaust Flow Rate (scfm): 19,300

Stack Temperature (°F): 90

Discharge Style: Vertical Unobstructed

Authority for Requirement: Iowa DNR Construction Permit 01-A-1343-S1

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Compliance Assurance Monitoring (CAM) Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 106

Associated Equipment

Associated Emission Unit ID Number: 106

Emission Unit vented through this Emission Point: 106

Emission Unit Description: Cooling Tunnel for Pretreatment System

Raw Material/Fuel: Detergents, Sealers

Rated Capacity: 11.6 gallons/min

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity

Emission Limit(s): 40%⁽¹⁾

Authority for Requirement: Iowa DNR Construction Permit 01-A-1344-S1
567 IAC 23.3(2) "d"

⁽¹⁾ An exceedance of the indicator opacity of (10%) will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g. stack testing)

Pollutant: PM-10

Emission Limit(s): 0⁽²⁾

Authority for Requirement: Iowa DNR Construction Permit 01-A-1344-S1

⁽²⁾ Emissions accounted for in EP 103 and EP 104

Pollutant: Particulate Matter (PM)

Emission Limit(s): 1.39 lb/hr⁽³⁾; 0.1 gr/dscf

Authority for Requirement: Iowa DNR Construction Permit 01-A-1344-S1
567 IAC 23.3(2)"a"

⁽³⁾ To be a synthetic minor for PSD over each stack in project (EP 103, EP 104, EP 105 and EP 106).

Pollutant: Chromium

Emission Limit(s): 0.54 lb/hr⁽⁴⁾

Authority for Requirement: Iowa DNR Construction Permit 01-A-1344-S1

⁽⁴⁾ Maximum emission rate allowed for each stack (EP 103, EP 104, EP 105 and EP 106) in order for the project to be minor for Case-by-Case MACT [112(g)] purposes.

Emission Point Characteristics

This emission point shall conform to the specifications listed below:

Stack Height (feet): 34

Stack Diameter (inches): 38

Stack Exhaust Flow Rate (scfm): 19,300

Stack Temperature (°F): 90

Discharge Style: Vertical Unobstructed

Authority for Requirement: Iowa DNR Construction Permit 01-A-1344-S1

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Compliance Assurance Monitoring (CAM) Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 107

Associated Equipment

Associated Emission Unit ID Number: 107
Emissions Control Equipment ID Number: 107
Emissions Control Equipment Description: Dry Filter

Emission Unit vented through this Emission Point: 107
Emission Unit Description: Paint Booth – Clad Frame
Raw Material/Fuel: Paint, Solvent
Rated Capacity: 21.0 gallons/hr

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit(s): 40%⁽¹⁾
Authority for Requirement: Iowa DNR Construction Permit 02-A-085
567 IAC 23.3(2) "d"

- ⁽¹⁾ An exceedance of the indicator opacity of (10%) will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.01 gr/dscf
Authority for Requirement: Iowa DNR Construction Permit 02-A-085
567 IAC 23.4(13)

Pollutant: Volatile Organic Compounds (VOC)
Emission Limit(s): 13.5 tons/yr⁽²⁾
Authority for Requirement: Iowa DNR Construction Permit 02-A-085

- ⁽²⁾ As requested, to remain an insignificant increase for PSD and 112(g).

Pollutant: Hazardous Air Pollutant (HAP)
Emission Limit(s): 8.4 tons/yr⁽³⁾ (Single HAP)
Authority for Requirement: Iowa DNR Construction Permit 02-A-085

⁽³⁾ As requested, to remain an insignificant increase for PSD and 112(g).

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Process Throughput:

- 1) Coating usage shall be limited to a maximum of 3,600 gallons per twelve month rolling period. Coatings used shall have a maximum VOC content of 5.0 lbs VOC/gal as applied, and a maximum single HAP content of 3.0 lbs/gal as applied.
- 2) Solvent usage shall be limited to a maximum of 1,200 gallons per twelve month rolling period. Solvents used shall have a maximum VOC content of 7.5 lbs VOC/gal and a maximum single HAP content of 5.0 lbs/gal.
- 3) The control equipment shall be inspected and maintained according to manufacturer's recommendations.

Reporting and Recordkeeping:

All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.

- 1) The owner or operator shall keep records of the amount of both coatings and material used, and update the twelve month rolling total in both categories monthly.
- 2) Material Safety Data Sheets (MSDS), showing both VOC and HAP content, for all materials used in this booth shall be kept.
- 3) The owner or operator shall keep records of control equipment inspections and maintenance.

Authority for Requirement: Iowa DNR Construction Permit 02-A-085

Emission Point Characteristics

This emission point shall conform to the specifications listed below:

Stack Height (feet): 38
Stack Diameter (inches): 42" X 42"
Stack Exhaust Flow Rate (scfm): 26,000
Stack Temperature (°F): Ambient
Discharge Style: Vertical Obstructed
Authority for Requirement: Iowa DNR Construction Permit 02-A-085

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☒ No ☐

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Compliance Assurance Monitoring (CAM) Plan Required? Yes ☐ No ☒

Agency Paint Booth Operation and Maintenance Plan

Weekly

- Inspect the paint booth system for conditions that reduce the operating efficiency of the collection system. This will include a visual inspection of the condition of the filter material.
- Maintain a written record of the observation and any action resulting from the inspection.

Record Keeping and Reporting

Maintenance and inspection records will be kept for five years and available upon request.

Quality Control

- The filter equipment will be operated and maintained according to the manufacturers recommendations.

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 108A

Associated Equipment

Associated Emission Unit ID Number: 108

Emission Unit vented through this Emission Point: 108

Emission Unit Description: Paint Line Cure Oven

Raw Material/Fuel: Natural Gas

Rated Capacity: 1.409 MMBtu/hr¹

¹This is the maximum rated capacity for the two make-up air units for EU 108.

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity

Emission Limit(s): 40%

Authority for Requirement: 567 IAC 23.3(2) "d"

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.1 gr/dscf

Authority for Requirement: 567 IAC 23.3(2) "a"

Pollutant: Sulfur Dioxide (SO₂)

Emission Limit(s): 500 ppmv

Authority for Requirement: 567 IAC 23.3(3) "e"

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): 13.5 tons/yr⁽²⁾

Authority for Requirement: Iowa DNR Construction Permit 02-A-086

⁽²⁾ As requested, to remain an insignificant increase for PSD and 112(g).

Pollutant: Hazardous Air Pollutants (HAPs)

Emission Limit(s): 8.4 tons/yr⁽³⁾ (Single HAP)

Authority for Requirement: Iowa DNR Construction Permit 02-A-086

⁽³⁾ As requested, to remain an insignificant increase for PSD and 112(g).

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

NESHAP Applicability

1. This emission unit shall comply with all applicable requirements from 40 CFR Part 63, Subpart DDDDD, NESHAP for Industrial, commercial, and Institutional Boilers and Process Heaters

Authority for Requirement: IDNR Construction Permit 02-A-086
567 IAC 23.1(4)"dd"

Process Throughput:

- 1) For recordkeeping purposes, all VOCs from this unit will be accounted for at the associated paint booth (EP 107).

Emission Point Characteristics

This emission point shall conform to the specifications listed below:

Stack Height (feet): 38

Stack Diameter (inches): 24" X 24"

Stack Exhaust Flow Rate (scfm): 5,500

Stack Temperature (°F): 90

Discharge Style: Vertical Obstructed

Authority for Requirement: Iowa DNR Construction Permit 02-A-086

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Compliance Assurance Monitoring (CAM) Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 108B

Associated Equipment

Associated Emission Unit ID Number: 108

Emission Unit vented through this Emission Point: 108

Emission Unit Description: Paint Line Cure Oven

Raw Material/Fuel: Natural Gas

Rated Capacity: 1.409 MMBtu/hr¹

¹This is the maximum rated capacity for the two make-up air units for EU 108.

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity

Emission Limit(s): 40%

Authority for Requirement: 567 IAC 23.3(2) "d"

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.1 gr/dscf

Authority for Requirement: 567 IAC 23.3(2) "a"

Pollutant: Sulfur Dioxide (SO₂)

Emission Limit(s): 500 ppmv

Authority for Requirement: 567 IAC 23.3(3) "e"

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): 13.5 tons/yr⁽²⁾

Authority for Requirement: Iowa DNR Construction Permit 02-A-087

⁽²⁾ As requested, to remain an insignificant increase for PSD and 112(g).

Pollutant: Hazardous Air Pollutants (HAPs)

Emission Limit(s): 8.4 tons/yr⁽³⁾ (Single HAP)

Authority for Requirement: Iowa DNR Construction Permit 02-A-087

⁽³⁾ As requested, to remain an insignificant increase for PSD and 112(g).

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

NESHAP Applicability

1. This emission unit shall comply with all applicable requirements from 40 CFR Part 63, Subpart DDDDD, NESHAP for Industrial, commercial, and Institutional Boilers and Process Heaters

Authority for Requirement: IDNR Construction Permit 02-A-087
567 IAC 23.1(4)"dd"

Process Throughput:

- 1) For recordkeeping purposes, all VOCs from this unit will be accounted for at the associated paint booth (EP 107).

Emission Point Characteristics

This emission point shall conform to the specifications listed below:

Stack Height (feet): 38

Stack Diameter (inches): 18" X 18"

Stack Exhaust Flow Rate (scfm): 2,800

Stack Temperature (°F): 120

Discharge Style: Vertical Unobstructed

Authority for Requirement: Iowa DNR Construction Permit 02-A-087

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Compliance Assurance Monitoring (CAM) Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 108C

Associated Equipment

Associated Emission Unit ID Number: 108

Emission Unit vented through this Emission Point: 108

Emission Unit Description: Paint Line Cure Oven

Raw Material/Fuel: Natural Gas

Rated Capacity: 1.409 MMBtu/hr⁽¹⁾

¹This is the maximum rated capacity for the two make-up air units for EU 108.

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity

Emission Limit(s): 40%

Authority for Requirement: 567 IAC 23.3(2) "d"

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.1 gr/dscf

Authority for Requirement: 567 IAC 23.3(2) "a"

Pollutant: Sulfur Dioxide (SO₂)

Emission Limit(s): 500 ppmv

Authority for Requirement: 567 IAC 23.3(3) "e"

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): 13.5 tons/yr⁽²⁾

Authority for Requirement: Iowa DNR Construction Permit 02-A-088

⁽²⁾ As requested, to remain an insignificant increase for PSD and 112(g).

Pollutant: Hazardous Air Pollutants (HAPs)

Emission Limit(s): 8.4 tons/yr⁽³⁾ (Single HAP)

Authority for Requirement: Iowa DNR Construction Permit 02-A-088

⁽³⁾ As requested, to remain an insignificant increase for PSD and 112(g).

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

NESHAP Applicability

1. This emission unit shall comply with all applicable requirements from 40 CFR Part 63, Subpart DDDDD, NESHAP for Industrial, commercial, and Institutional Boilers and Process Heaters

Authority for Requirement: IDNR Construction Permit 02-A-088
567 IAC 23.1(4)"dd"

Process Throughput:

1. For recordkeeping purposes, all VOCs from this unit will be accounted for at the associated paint booth (EP 107).

Emission Point Characteristics

This emission point shall conform to the specifications listed below:

Stack Height (feet): 38

Stack Diameter (inches): 18" X 18"

Stack Exhaust Flow Rate (acfm): 3,700

Stack Temperature (°F): 90

Discharge Style: Vertical Obstructed

Authority for Requirement: Iowa DNR Construction Permit 02-A-088

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Compliance Assurance Monitoring (CAM) Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 110

Associated Equipment

Associated Emission Unit ID Number: 110

Emission Unit vented through this Emission Point: 110
Emission Unit Description: Horizontal Line Paint Booth
Raw Material/Fuel: Paint

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity

Emission Limit(s): 40%⁽¹⁾

Authority for Requirement: Iowa DNR Construction Permit 02-A-911-S2
567 23.3(2)"d"

⁽¹⁾ An exceedance of the indicator opacity of (no visible emissions) will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: PM₁₀

Emission Limit(s): 0.08 lb/hr

Authority for Requirement: Iowa DNR Construction Permit 02-A-911-S2

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.01 gr/dscf

Authority for Requirement: Iowa DNR Construction Permit 02-A-911-S2
567 IAC 23.4(13)

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): 60.0 tons/yr⁽²⁾

Authority for Requirement: Iowa DNR Construction Permit 02-A-911-S2

⁽²⁾ Bubble limit to be a synthetic minor for PSD. This is a bubble limit set on EU-35, EU-37, EU-38, EU-68 and EU-110. A limit of 39.4 tpy was set during project number 02-610 to be a synthetic minor for PSD in December 2002, when emission units EU-35, EU-37, EU-38 and EU-68 were all relocated and replaced (including spray guns). The limit was increased to 60 tpy during project number 04-224 in June 2005 through re-evaluating the netting in the contemporaneous period used for project 02-610.

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

NESHAP Applicability

1. This emission unit shall comply with all applicable requirements from 40 CFR Part 63, Subpart M NESHAP for Coating of Miscellaneous Metal Parts.

Authority for Requirement: IDNR Construction Permit 02-A-911-S2
567 IAC 23.1(4)"cm"

Process Throughput:

1. The hand-held paint spray booth is limited to using a maximum of 2 spray guns simultaneously within this booth.

Reporting and Recordkeeping:

All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.

1. The facility shall keep records of the amount of material consumed by quantifying the amount of gallons used in emission units (EU-35, EU-37, EU-38, EU-68, and EU-110) on a daily basis.
2. Record VOCs and solids content in pounds per gallon for each painting material used in the booth.
3. The facility shall keep records on a rolling 12-month basis in the amount of VOCs emitted by the emission units (EU-35, EU-37, EU-38, EU-68, and EU-110) in tons per year.
4. The MSDS of each material used at the facility shall be kept on-site and available for inspection by the IDNR

Authority for Requirement: Iowa DNR Construction Permit 02-A-911-S2

Emission Point Characteristics

This emission point shall conform to the specifications listed below:

Stack Height (feet): 39

Stack Diameter (inches): 18

Stack Exhaust Flow Rate (scfm): 2,000

Stack Temperature (°F): Ambient

Discharge Style: Vertical Obstructed

Authority for Requirement: Iowa DNR Construction Permit 02-A-911-S2

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☒ No ☐

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Compliance Assurance Monitoring (CAM) Plan Required? Yes ☐ No ☒

Agency Paint Booth Operation and Maintenance Plan

Weekly

- Inspect the paint booth system for conditions that reduce the operating efficiency of the collection system. This will include a visual inspection of the condition of the filter material.
- Maintain a written record of the observation and any action resulting from the inspection.

Record Keeping and Reporting

Maintenance and inspection records will be kept for five years and available upon request.

Quality Control

- The filter equipment will be operated and maintained according to the manufacturers recommendations.

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 112

Associated Equipment

Associated Emission Unit ID Number: 112

Emission Unit vented through this Emission Point: 112
Emission Unit Description: Service Parts Wood Dip /Dry
Raw Material/Fuel: Wood Preservative, Mineral Spirits

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity

Emission Limit(s): 40%⁽¹⁾

Authority for Requirement: Iowa DNR Construction Permit 03-A-333
567 23.3(2)"d"

⁽¹⁾ An exceedance of the indicator opacity of (no visible emissions) will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: PM₁₀

Emission Limit(s): 1.55 lb/hr⁽²⁾

Authority for Requirement: Iowa DNR Construction Permit 03-A-333

⁽²⁾PM/PM₁₀ limit to limit potential emissions. Department has assumed PM/PM₁₀ are equivalent.

Pollutant: Particulate Matter (PM)

Emission Limit(s): , 1.55 lb/hr⁽²⁾, 0.01 gr/dscf

Authority for Requirement: Iowa DNR Construction Permit 03-A-333
567 IAC 23.4(13)

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): 13 tons/yr⁽³⁾

Authority for Requirement: Iowa DNR Construction Permit 03-A-333

⁽³⁾Requested VOC limit to limit potential to emit. Limit based on 4000 gallons per year usage and 6.5 lb/gal maximum VOC content.

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

NESHAP Applicability

1. This emission unit shall comply with all applicable requirements from 40 CFR Part 63, Subpart QQQQ NESHAP for Surface Coating of Wood building Products

Authority for Requirement: IDNR Construction Permit 03-A-333
567 IAC 23.1(4)"cq"

Process Throughput:

1. The maximum VOC content of any preservative or mineral spirits added to the Service Parts Wood Dip/Dry (EU-112) shall not exceed 6.50 pounds per gallon.
2. The maximum amount preservative and mineral spirits to be used is 4000 gallons per rolling 12-month period.

Reporting and Recordkeeping:

All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.

1. Record the VOC content of any preservative or mineral spirits added to the Service Parts Wood Dip/Dry (EU-112) in pounds per gallon..
2. Record the amount of preservative and mineral spirits added to the Service Parts Wood Dip/Dry (EU-112) in gallons on a rolling 12-month basis.
3. Maintain a record of the maintenance on the Service Parts Wood Dip/Dry (EU 112) according to manufacturer's specifications.

Authority for Requirement: Iowa DNR Construction Permit 03-A-333

Emission Point Characteristics

This emission point shall conform to the specifications listed below:

Stack Height (feet): 33

Stack Diameter (inches): 12

Stack Exhaust Flow Rate (scfm): 1,800

Stack Temperature (°F): Ambient

Discharge Style: Vertical Unobstructed

Authority for Requirement: Iowa DNR Construction Permit 03-A-333

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Compliance Assurance Monitoring (CAM) Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 113 (Bypass Stack)

Associated Equipment

Associated Emission Unit ID Number: 113

Emission Unit vented through this Emission Point: 113

Emission Unit Description: Wood Dip /Dry DDH Sash

Raw Material/Fuel: Wood Preservative, Mineral spirits, 1,390 parts per hour

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity

Emission Limit(s): 40%⁽¹⁾

Authority for Requirement: Iowa DNR Construction Permit 03-A-1155
567 23.3(2)"d"

⁽¹⁾ An exceedance of the indicator opacity of (10%) will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.01 gr/dscf

Authority for Requirement: Iowa DNR Construction Permit 03-A-1155
567 IAC 23.4(13)

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): 50 tons/yr⁽²⁾

Authority for Requirement: Iowa DNR Construction Permit 03-A-1155

⁽²⁾Limit based on operating limits and 95% destruction efficiency of the control equipment when EU-58, eu-59, EU-60, EU-62, EU-63, EU-64, EU-84, EU-89, EU-96, and EU-113 vent through EP-CO. This VOC limit is a bubble limit for the eleven emissions points of EU-58, EU-59, EU-60, EU-62, EU-63, EU-64, EU-84, EU-89, EU-96, and EU-113 and EP-CO, which shall not be exceeded in any combination in the use of these eleven emission points.

Note: Emission units EU-64 and EU-84 have been removed. The facility will be obtaining modified construction permits to reflect these changes.

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

NESHAP Applicability

1. This emission unit shall comply with all applicable requirements from 40 CFR Part 63, Subpart QQQQ NESHAP for Surface Coating of Wood building Products

Authority for Requirement: IDNR Construction Permit 03-A-1155
567 IAC 23.1(4)"cq"

Process Throughput:

1. The maximum VOC content of any preservative or mineral spirits added to the Wood Dip-Dry DH Sash (EU 113) shall not exceed 7.0 pounds per gallon.
2. The by-pass stack shall have a device to determine the number of hours that the by-pass stack is open to the atmosphere.

Reporting and Recordkeeping:

All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.

1. Record the VOC content of any preservative or mineral spirits added to the Wood Dip - Dry DH Sash (EU 113) in pounds per gallon.
2. Record the amount of preservative and mineral spirits added to the Wood Dip - Dry DH Sash (EU 113) in gallons on a daily basis.
3. Record the number of hours the bypass stack (EP 113) is open to the atmosphere on a daily basis.
4. Calculate and record the total Voc emissions in tons per month that are emitted through by-pass Stack EP-113.
5. Calculate and record on a rolling 12-month basis the total emissions from EP 58, EP 59, EP 60, EP 62, EP 63, EP 64, EP 84, EP 89, EP 96, EP 113 and EP CO to ensure that total emissions are below 50 ton per year limit.

Note: Emission units EU-64 and EU-84 have been removed. The facility will be obtaining modified construction permits to reflect these changes.

Authority for Requirement: Iowa DNR Construction Permit 03-A-1155

Emission Point Characteristics

This emission point shall conform to the specifications listed below:

Stack Height (feet): 25

Stack Diameter (inches): 12

Stack Exhaust Flow Rate (scfm): 1,000

Stack Temperature (°F): 70

Discharge Style: Vertical Unobstructed

Authority for Requirement: Iowa DNR Construction Permit 03-A-1155

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Compliance Assurance Monitoring (CAM) Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 114

Associated Equipment

Associated Emission Unit ID Number: 114A and 114B

Emission Unit vented through this Emission Point: 114

Emission Unit Description: UV Coater (primer)

Raw Material/Fuel: Paint

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity

Emission Limit(s): 40%⁽¹⁾

Authority for Requirement: Iowa DNR Construction Permit 04-A-060
567 23.3(2)"d"

⁽¹⁾ An exceedance of the indicator opacity of (no visible emissions) will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.01 gr/dscf

Authority for Requirement: Iowa DNR Construction Permit 04-A-060
567 IAC 23.4(13)

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

NESHAP Applicability

1. This emission unit shall comply with all applicable requirements from 40 CFR Part 63, Subpart M NESHAP for Coating of Miscellaneous Metal Parts.

Authority for Requirement: IDNR Construction Permit 04-A-060
567 IAC 23.1(4)"cm"

Process Throughput:

1. The UV-Coater (Primer) (Vacuum Coater EU-114a and Ultraviolet Curing Chamber EU-114b) has a maximum solids content for any material used to be less than or equal to 12.28 lb / gallon.
2. The amount of material to be used in the UV-Coater (Primer) (Vacuum Coater EU-114a and Ultraviolet Curing Chamber EU-114b) shall not exceed 500 gallons per rolling 12-month period.
3. Maintain MSDS on site for each material used in the UV-Coater (Primer) (Vacuum Coater EU-114a and Ultraviolet Curing Chamber EU-114b).

Reporting and Recordkeeping:

All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.

1. The facility shall keep records of the amount of material consumed by quantifying the amount of gallons used in the UV-Coater (Primer) (Vacuum Coater EU-114a and Ultraviolet Curing Chamber EU-114b) on a rolling 12-month total.
2. Record VOCs and solids content in pounds per gallon for each painting material used in the booth.
3. The MSDS of each material used at the facility shall be kept on-site and available for inspection by the IDNR

Authority for Requirement: Iowa DNR Construction Permit 04-A-060

Emission Point Characteristics

This emission point shall conform to the specifications listed below:

Stack Height (feet): 33

Stack Diameter (inches): 20

Stack Exhaust Flow Rate (scfm): EU 114A = 650 scfm, EU 114B = 3,200 scfm,
Combined = 3,850 scfm

Stack Temperature (°F): Ambient

Discharge Style: Vertical Unobstructed

Authority for Requirement: Iowa DNR Construction Permit 04-A-060

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Compliance Assurance Monitoring (CAM) Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 115

Associated Equipment

Associated Emission Unit ID Number: 115

Emission Unit vented through this Emission Point: 115

Emission Unit Description: Kohl Diesel I.C. Engine

Raw Material/Fuel: Fuel Oil

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity

Emission Limit(s): 40%

Authority for Requirement: Iowa DNR Construction Permit 04-A-1038
567 23.3(2)"d"

Pollutant: Particulate Matter (PM)

Emission Limit(s): 1.02 lb/hr

Authority for Requirement: Iowa DNR Construction Permit 04-A-1038

Pollutant: Nitrogen Oxide (NO_x)

Emission Limit(s): 14.32 lb/hr, 3.58 TPY

Authority for Requirement: Iowa DNR Construction Permit 04-A-1038

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Process Throughput:

- 1) The engine is permitted to burn diesel fuel oil (No. 1 or No. 2).
- 2) The sulfur content of the fuel oil burned shall not exceed 0.5 percent by weight.
- 3) The engine shall not operate more than 500 hours in any rolling 12-month period.

Reporting and Recordkeeping:

All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.

- 1) The permittee shall perform an analysis and shall maintain records on the sulfur content of each shipment of oil received. Alternatively, the permittee shall have the oil supplier provide analyses on the sulfur content of the oil received.
- 2) The permittee shall keep the following monthly records:
 - i. the number of hours the engine operated; and
 - ii. the rolling, 12-month total of the number of hours the engine operated.

Authority for Requirement: Iowa DNR Construction Permit 04-A-1038

Emission Point Characteristics

This emission point shall conform to the specifications listed below:

Stack Height (feet): 18.5

Stack Diameter (inches): 8

Stack Exhaust Flow Rate (scfm): 952

Stack Temperature (°F): 860

Discharge Style: Vertical Unobstructed

Authority for Requirement: Iowa DNR Construction Permit 04-A-1038

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Compliance Assurance Monitoring (CAM) Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 116 (Bypass Stack)

Associated Equipment

Associated Emission Unit ID Number: 116

Emission Unit vented through this Emission Point: 116

Emission Unit Description: Wood Dip /Dry Double Hung

Raw Material/Fuel: Wood Preservative, Mineral spirits, 200 parts per hour

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity

Emission Limit(s): 40%⁽¹⁾

Authority for Requirement: Iowa DNR Construction Permit 05-A-070
567 23.3(2)"d"

⁽¹⁾ An exceedance of the indicator opacity of (10%) will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.01 gr/dscf

Authority for Requirement: Iowa DNR Construction Permit 05-A-070
567 IAC 23.4(13)

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): 4.19 tons/yr⁽²⁾

Authority for Requirement: Iowa DNR Construction Permit 05-A-070

⁽²⁾ this limit is based on operating limits for EU 116, and has contributions from three sources: emissions from the by-pass stack (EP-116), emissions from the catalytic oxidizer (EP CO) attributable to EU 116, and uncaptured emission (no stack).

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

NESHAP Applicability

1. This emission unit shall comply with all applicable requirements from 40 CFR Part 63, Subpart QQQQ NESHAP for Surface Coating of Wood building Products

Authority for Requirement: IDNR Construction Permit 05-A-070
567 IAC 23.1(4)"cq"

Process Throughput:

1. The maximum VOC content of any preservative or mineral spirits to be used in the Wood Dip/Dry Double Hung emission unit (EU116) shall not exceed 5,000 gallons per rolling 12-month period.
2. The maximum Voc content of any preservative or mineral spirits added to the Dip/Dry Double Hung emission Unit (EU 116) shall not exceed 6.5 pounds per gallon.
3. The by-pass stack (EP 116) shall have a device to determine the number of hours that the by-pass stack is open to the atmosphere.
4. The by-pass stack (EP 116) shall not operate more than 40 hours per rolling 12-month period.

Reporting and Recordkeeping:

All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.

1. Record the amount of preservative and mineral spirits added to dip/Dry Double Hung emission unit (EU 116) in gallons on a monthly basis. Calculate and record 12-month rolling totals.
2. Record the VOC content of any preservative or mineral spirits added to Wood Preservative Dip Tank (EU 116) in pounds per gallon.
3. Record the number of hours the by-pass stack (EP 116) is open to the atmosphere on a monthly basis. Calculate and record 12-month rolling totals.
4. The owner or operator shall maintain a MSDS for all preservative and mineral spirits added to Dip/Dry Double Hung emission unit (EU 116). The MSDS shall contain the VOC, Single HAP and Total HAP content of each material.

5. Maintain a record of the maintenance on the Dip/Dry Double hung emission unit (EU 116) according to manufacturer's specifications.

Authority for Requirement: Iowa DNR Construction Permit 05-A-070

Emission Point Characteristics

This emission point shall conform to the specifications listed below:

Stack Height (feet): 25

Stack Diameter (inches): 10

Stack Exhaust Flow Rate (scfm): 1,000

Stack Temperature (°F): Ambient

Discharge Style: Vertical Unobstructed

Authority for Requirement: Iowa DNR Construction Permit 05-A-070

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Compliance Assurance Monitoring (CAM) Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 118

Associated Equipment

Associated Emission Unit ID Numbers (if multiple units vent thru this EP): 118

Emissions Control Equipment ID Number: 118

Emissions Control Equipment Description: Dry Filters

Emission Unit vented through this Emission Point: 118

Emission Unit Description: Stain Booth

Raw Material/Fuel: Stain, Lacquer

Rated Capacity: 3.17 Gal/Hr

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity⁽¹⁾

Emission Limit(s): 40%

If visible emissions are observed, the owner/operator is required to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g. stack testing).

Authority for Requirement: IDNR Construction Permit 07-A-129
567 IAC 23.3(2)"d"

Pollutant: PM₁₀

Emission Limit(s): 0.30 lb./hr

Authority for Requirement: IDNR Construction Permit 07-A-129

Pollutant: Particulate Matter

Emission Limit(s): 0.01 gr/dscf

Authority for Requirement: IDNR Construction Permit 07-A-129
567 IAC 23.4(13)

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): 36.0 tons/yr⁽²⁾

Authority for Requirement: IDNR Construction Permit 07-A-129

⁽²⁾This VOC limit is a bubble limit for the five emissions points of EU118 - EU 122, and is based on operating limits (see process through put below).

Pollutant: Total HAP

Emission Limit(s): 231 g HAP/l solids⁽³⁾⁽⁴⁾

⁽³⁾231 grams of HAP/liter of solids = 1.93 lb of HAP/gal of solids

⁽⁴⁾Determined as a rolling 12-month emission rate according to the requirements in 40 CFR §63.4741, 40 CFR §63.4751, or 40 CFR §63.4761, as applicable.

Authority for Requirement: IDNR Construction Permit 07-A-129
567 IAC 23.1(4)"cq"

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

NESHAP Applicability

1. This emission unit is subject to Subpart A, National Emission Standards for Hazardous Air Pollutants: General Provisions.
2. This emission unit shall comply with all applicable requirements form 40 CFR Part 63, Subpart QQQQ, NESHAP for Surface Coating of Wood Building Products.

Authority for Requirement: IDNR Construction Permit 07-A-129
567 IAC 23.1(2)
567 IAC 23.1(4)"cq"

Process throughput:

1. The maximum VOC content of any material (i.e. stain, paint, solvent, lacquer, etc.) used in emission units EU-118 thru EU 122 shall not exceed 6.00 pounds per gallon.
2. Emission units EU-118 thru EU-122 shall not use more than 12,000 gallons of materials (i.e. stain, paint, solvent, lacquer, etc.) per rolling twelve (12) month period.

Authority for Requirement: IDNR Construction Permit 07-A-129

Reporting & Recordkeeping:

The following records shall be maintained on-site for five(5) years and available for inspection upon request by representatives of the Department of Natural Resources:

1. A record of all materials used and their respective VOC contents.
2. For the first twelve (12) months of operation, determine the total amount of material (i.e. stain, paint, solvent, lacquer, etc.) used (in gallons/month) in emission units EU 118 – EU 122 for each month of operation.
3. After the first twelve (12) months of operation, determine the cumulative amount of material (i.e. stain, paint, solvent, lacquer, etc.) used (in gallons/year) in emission units EU 118 – EU 122 on a rolling-12-month basis for each month of operation.
4. Monitoring for NESHAP Subpart QQQQ at the facility (plant number 63-02-003) shall be done per the subpart.

5. Recordkeeping for NESHAP Subpart QQQQ at the facility (plant number 63-02-003) shall be done per the subpart.

Authority for Requirement: IDNR Construction Permit 07-A-129
567 IAC 22.108

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 32
Stack Opening, (inches, dia.): 34
Exhaust Flow Rate (scfm): 11,520
Exhaust Temperature (°F): Ambient
Discharge Style: Vertical unobstructed
Authority for Requirement: IDNR Construction Permit 07-A-129

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☒ No ☐

Compliance Assurance Monitoring (CAM) Plan Required? Yes ☐ No ☒

Facility operation and maintenance plans must be sufficient to yield reliable data from the relevant time period that are representative of the source's compliance with the applicable requirements.

Facility operation and maintenance plans are to be developed by the facility within six(6) months of the issuance date of this permit and the data pertaining to the plan maintained on site for at least 5 years. The plan and associated recordkeeping provides documentation of this facility's implementation of its obligation to operate according to good air pollution control practice.

Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 119**Associated Equipment**

Associated Emission Unit ID Numbers (if multiple units vent thru this EP): 119

Emissions Control Equipment ID Number: CE-119

Emissions Control Equipment Description: Dry Filters

Emission Unit vented through this Emission Point: 119

Emission Unit Description: Topcoat Spray Booth # 1

Raw Material/Fuel: Paint, Lacquer, Solvent

Rated Capacity: 3.17 gal/hr

Applicable Requirements**Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity₍₁₎

Emission Limit(s): 40%

If visible emissions are observed, the owner/operator is required to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g. stack testing).

Authority for Requirement: IDNR Construction Permit 07-A-130
567 IAC 23.3(2)"d"

Pollutant: PM₁₀

Emission Limit(s): 0.30 lb./hr

Authority for Requirement: IDNR Construction Permit 07-A-130

Pollutant: Particulate Matter

Emission Limit(s): 0.01 gr/dscf

Authority for Requirement: IDNR Construction Permit 07-A-130
567 IAC 23.4(13)

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): 36.0 tons/yr⁽²⁾

Authority for Requirement: IDNR Construction Permit 07-A-130

⁽²⁾This VOC limit is a bubble limit for the five emissions points of EU118 - EU 122, and is based on operating limits (see process through put below).

Pollutant: Total HAP

Emission Limit(s): 231 g HAP/l solids⁽³⁾⁽⁴⁾

⁽³⁾231 grams of HAP/liter of solids = 1.93 lb of HAP/gal of solids

⁽⁴⁾Determined as a rolling 12-month emission rate according to the requirements in 40 CFR §63.4741, 40 CFR §63.4751, or 40 CFR §63.4761, as applicable.

Authority for Requirement: IDNR Construction Permit 07-A-130
567 IAC 23.1(4)"cq"

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

NESHAP Applicability

1. This emission unit is subject to Subpart A, National Emission Standards for Hazardous Air Pollutants: General Provisions.
2. This emission unit shall comply with all applicable requirements form 40 CFR Part 63, Subpart QQQQ, NESHAP for Surface Coating of Wood Building Products.

Authority for Requirement: IDNR Construction Permit 07-A-130
567 IAC 23.1(2)
567 IAC 23.1(4)"cq"

Process throughput:

1. The maximum VOC content of any material (i.e. stain, paint, solvent, lacquer, etc.) used in emission units EU-118 thru EU 122 shall not exceed 6.00 pounds per gallon.
2. Emission units EU-118 thru EU-122 shall not use more than 12,000 gallons of materials (i.e. stain, paint, solvent, lacquer, etc.) per rolling twelve (12) month period.

Authority for Requirement: IDNR Construction Permit 07-A-130

Reporting & Recordkeeping:

The following records shall be maintained on-site for five(5) years and available for inspection upon request by representatives of the Department of Natural Resources:

1. A record of all materials used and their respective VOC contents.
2. For the first twelve (12) months of operation, determine the total amount of material (i.e. stain, paint, solvent, lacquer, etc.) used (in gallons/month) in emission units EU 118 – EU 122 for each month of operation.
3. After the first twelve (12) months of operation, determine the cumulative amount of material (i.e. stain, paint, solvent, lacquer, etc.) used (in gallons/year) in emission units EU 118 – EU 122 on a rolling-12-month basis for each month of operation.

4. Monitoring for NESHAP Subpart QQQQ at the facility (plant number 63-02-003) shall be done per the subpart.
5. Recordkeeping for NESHAP Subpart QQQQ at the facility (plant number 63-02-003) shall be done per the subpart.

Authority for Requirement: IDNR Construction Permit 07-A-130
567 IAC 22.108

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 32

Stack Opening, (inches, dia.): 34

Exhaust Flow Rate (scfm): 11,520

Exhaust Temperature (°F): Ambient

Discharge Style: Vertical unobstructed

Authority for Requirement: IDNR Construction Permit 07-A-130

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☒ No ☐

Compliance Assurance Monitoring (CAM) Plan Required? Yes ☐ No ☒

Facility operation and maintenance plans must be sufficient to yield reliable data from the relevant time period that are representative of the source's compliance with the applicable requirements.

Facility operation and maintenance plans are to be developed by the facility within six(6) months of the issuance date of this permit and the data pertaining to the plan maintained on site for at least 5 years. The plan and associated recordkeeping provides documentation of this facility's implementation of its obligation to operate according to good air pollution control practice.

Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 120**Associated Equipment**

Associated Emission Unit ID Numbers (if multiple units vent thru this EP): 120

Emissions Control Equipment ID Number: None

Emissions Control Equipment Description: None

Emission Unit vented through this Emission Point: 120

Emission Unit Description: Electric IR Dry-Off Oven #1

Raw Material/Fuel: Painted, Lacquered parts

Rated Capacity: N/A

Applicable Requirements**Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): 36.0 tons/yr⁽²⁾

Authority for Requirement: IDNR Construction Permit 07-A-131

⁽²⁾This VOC limit is a bubble limit for the five emissions points of EU118 - EU 122, and is based on operating limits (see process through put below).

Pollutant: Total HAP

Emission Limit(s): 231 g HAP/l solids⁽³⁾⁽⁴⁾

⁽³⁾231 grams of HAP/liter of solids = 1.93 lb of HAP/gal of solids

⁽⁴⁾Determined as a rolling 12-month emission rate according to the requirements in 40 CFR §63.4741, 40 CFR §63.4751, or 40 CFR §63.4761, as applicable.

Authority for Requirement: IDNR Construction Permit 07-A-131
567 IAC 23.1(4)"cq"

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

NESHAP Applicability

1. This emission unit is subject to Subpart A, National Emission Standards for Hazardous Air Pollutants: General Provisions.

2. This emission unit shall comply with all applicable requirements form 40 CFR Part 63, Subpart QQQQ, NESHAP for Surface Coating of Wood Building Products.

Process throughput:

1. The maximum VOC content of any material (i.e. stain, paint, solvent, lacquer, etc.) used in emission units EU-118 thru EU 122 shall not exceed 6.00 pounds per gallon.
2. Emission units EU-118 thru EU-122 shall not use more than 12,000 gallons of materials (i.e. stain, paint, solvent, lacquer, etc.) per rolling twelve (12) month period.

Authority for Requirement: IDNR Construction Permit 07-A-131

Reporting & Recordkeeping:

The following records shall be maintained on-site for five(5) years and available for inspection upon request by representatives of the Department of Natural Resources:

1. A record of all materials used and their respective VOC contents.
2. For the first twelve (12) months of operation, determine the total amount of material (i.e. stain, paint, solvent, lacquer, etc.) used (in gallons/month) in emission units EU 118 – EU 122 for each month of operation.
3. After the first twelve (12) months of operation, determine the cumulative amount of material (i.e. stain, paint, solvent, lacquer, etc.) used (in gallons/year) in emission units EU 118 – EU 122 on a rolling-12-month basis for each month of operation.
4. Monitoring for NESHAP Subpart QQQQ at the facility (plant number 63-02-003) shall be done per the subpart.
5. Recordkeeping for NESHAP Subpart QQQQ at the facility (plant number 63-02-003) shall be done per the subpart.

Authority for Requirement: IDNR Construction Permit 07-A-131
567 IAC 22.108

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 30

Stack Opening, (inches, dia.): 10

Exhaust Flow Rate (scfm): 1,500

Exhaust Temperature (°F): 120°

Discharge Style: Vertical Unobstructed

Authority for Requirement: IDNR Construction Permit 07-A-031

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☒ No ☐

Compliance Assurance Monitoring (CAM) Plan Required? Yes ☐ No ☒

Facility operation and maintenance plans must be sufficient to yield reliable data from the relevant time period that are representative of the source's compliance with the applicable requirements.

Facility operation and maintenance plans are to be developed by the facility within six(6) months of the issuance date of this permit and the data pertaining to the plan maintained on site for at least 5 years. The plan and associated recordkeeping provides documentation of this facility's implementation of its obligation to operate according to good air pollution control practice.

Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 121**Associated Equipment**

Associated Emission Unit ID Numbers (if multiple units vent thru this EP): 121

Emissions Control Equipment ID Number: 121

Emissions Control Equipment Description: Dry Filters

Emission Unit vented through this Emission Point: 121

Emission Unit Description: Topcoat Spray Booth # 2

Raw Material/Fuel: Paint, Lacquer, Solvent

Rated Capacity: 3.17 gal/hr

Applicable Requirements**Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity₍₁₎

Emission Limit(s): 40%

If visible emissions are observed, the owner/operator is required to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g. stack testing).

Authority for Requirement: IDNR Construction Permit 07-A-132
567 IAC 23.3(2)"d"

Pollutant: PM₁₀

Emission Limit(s): 0.30 lb./hr

Authority for Requirement: IDNR Construction Permit 07-A-132

Pollutant: Particulate Matter

Emission Limit(s): 0.01 gr/dscf

Authority for Requirement: IDNR Construction Permit 07-A-132
567 IAC 23.4(13)

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): 36.0 tons/yr⁽²⁾

Authority for Requirement: IDNR Construction Permit 07-A-132

⁽²⁾This VOC limit is a bubble limit for the five emissions points of EU118 - EU 122, and is based on operating limits (see process through put below).

Pollutant: Total HAP

Emission Limit(s): 231 g HAP/l solids⁽³⁾⁽⁴⁾

⁽³⁾231 grams of HAP/liter of solids = 1.93 lb of HAP/gal of solids

⁽⁴⁾Determined as a rolling 12-month emission rate according to the requirements in 40 CFR §63.4741, 40 CFR §63.4751, or 40 CFR §63.4761, as applicable.

Authority for Requirement: IDNR Construction Permit 07-A-132
567 IAC 23.1(4)"cq"

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

NESHAP Applicability

3. This emission unit is subject to Subpart A, National Emission Standards for Hazardous Air Pollutants: General Provisions.
4. This emission unit shall comply with all applicable requirements form 40 CFR Part 63, Subpart QQQQ, NESHAP for Surface Coating of Wood Building Products.

Authority for Requirement: IDNR Construction Permit 07-A-132
567 IAC 23.1(2)
567 IAC 23.1(4)"cq"

Process throughput:

3. The maximum VOC content of any material (i.e. stain, paint, solvent, lacquer, etc.) used in emission units EU-118 thru EU 122 shall not exceed 6.00 pounds per gallon.
4. Emission units EU-118 thru EU-122 shall not use more than 12,000 gallons of materials (i.e. stain, paint, solvent, lacquer, etc.) per rolling twelve (12) month period.

Authority for Requirement: IDNR Construction Permit 07-A-132

Reporting & Recordkeeping:

The following records shall be maintained on-site for five(5) years and available for inspection upon request by representatives of the Department of Natural Resources:

6. A record of all materials used and their respective VOC contents.
7. For the first twelve (12) months of operation, determine the total amount of material (i.e. stain, paint, solvent, lacquer, etc.) used (in gallons/month) in emission units EU 118 – EU 122 for each month of operation.
8. After the first twelve (12) months of operation, determine the cumulative amount of material (i.e. stain, paint, solvent, lacquer, etc.) used (in gallons/year) in emission units EU 118 – EU 122 on a rolling-12-month basis for each month of operation.

9. Monitoring for NESHAP Subpart QQQQ at the facility (plant number 63-02-003) shall be done per the subpart.
10. Recordkeeping for NESHAP Subpart QQQQ at the facility (plant number 63-02-003) shall be done per the subpart.

Authority for Requirement: IDNR Construction Permit 07-A-132
567 IAC 22.108

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 32

Stack Opening, (inches, dia.): 34

Exhaust Flow Rate (scfm): 11,520

Exhaust Temperature (°F): Ambient

Discharge Style: Vertical Unobstructed

Authority for Requirement: IDNR Construction Permit 07-A-132

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☒ No ☐

Compliance Assurance Monitoring (CAM) Plan Required? Yes ☐ No ☒

Facility operation and maintenance plans must be sufficient to yield reliable data from the relevant time period that are representative of the source's compliance with the applicable requirements.

Facility operation and maintenance plans are to be developed by the facility within six(6) months of the issuance date of this permit and the data pertaining to the plan maintained on site for at least 5 years. The plan and associated recordkeeping provides documentation of this facility's implementation of its obligation to operate according to good air pollution control practice.

Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 122**Associated Equipment**

Associated Emission Unit ID Numbers (if multiple units vent thru this EP): 122

Emissions Control Equipment ID Number: None

Emissions Control Equipment Description: None

Emission Unit vented through this Emission Point: 122

Emission Unit Description: Electric IR Dry-Off Oven #2

Raw Material/Fuel: Painted and Lacquered parts

Rated Capacity: N/A

Applicable Requirements**Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): 36.0 tons/yr⁽²⁾

Authority for Requirement: IDNR Construction Permit 07-A-133

⁽²⁾This VOC limit is a bubble limit for the five emissions points of EU118 - EU 122, and is based on operating limits (see process through put below).

Pollutant: Total HAP

Emission Limit(s): 231 g HAP/l solids⁽³⁾⁽⁴⁾

⁽³⁾231 grams of HAP/liter of solids = 1.93 lb of HAP/gal of solids

⁽⁴⁾Determined as a rolling 12-month emission rate according to the requirements in 40 CFR §63.4741, 40 CFR §63.4751, or 40 CFR §63.4761, as applicable.

Authority for Requirement: IDNR Construction Permit 07-A-133
567 IAC 23.1(4)"cq"

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

NESHAP Applicability

1. This emission unit is subject to Subpart A, National Emission Standards for Hazardous Air Pollutants: General Provisions.

2. This emission unit shall comply with all applicable requirements form 40 CFR Part 63, Subpart QQQQ, NESHAP for Surface Coating of Wood Building Products.

Process throughput:

1. The maximum VOC content of any material (i.e. stain, paint, solvent, lacquer, etc.) used in emission units EU-118 thru EU 122 shall not exceed 6.00 pounds per gallon.
2. Emission units EU-118 thru EU-122 shall not use more than 12,000 gallons of materials (i.e. stain, paint, solvent, lacquer, etc.) per rolling twelve (12) month period.

Authority for Requirement: IDNR Construction Permit 07-A-133

Reporting & Recordkeeping:

The following records shall be maintained on-site for five(5) years and available for inspection upon request by representatives of the Department of Natural Resources:

1. A record of all materials used and their respective VOC contents.
2. For the first twelve (12) months of operation, determine the total amount of material (i.e. stain, paint, solvent, lacquer, etc.) used (in gallons/month) in emission units EU 118 – EU 122 for each month of operation.
3. After the first twelve (12) months of operation, determine the cumulative amount of material (i.e. stain, paint, solvent, lacquer, etc.) used (in gallons/year) in emission units EU 118 – EU 122 on a rolling-12-month basis for each month of operation.
4. Monitoring for NESHAP Subpart QQQQ at the facility (plant number 63-02-003) shall be done per the subpart.
5. Recordkeeping for NESHAP Subpart QQQQ at the facility (plant number 63-02-003) shall be done per the subpart.

Authority for Requirement: IDNR Construction Permit 07-A-133
567 IAC 22.108

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 30

Stack Opening, (inches, dia.): 10

Exhaust Flow Rate (scfm): 1,500

Exhaust Temperature (°F): 120°

Discharge Style: Vertical Unobstructed

Authority for Requirement: IDNR Construction Permit 07-A-133

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☒ No ☐

Compliance Assurance Monitoring (CAM) Plan Required? Yes ☐ No ☒

Facility operation and maintenance plans must be sufficient to yield reliable data from the relevant time period that are representative of the source's compliance with the applicable requirements.

Facility operation and maintenance plans are to be developed by the facility within six(6) months of the issuance date of this permit and the data pertaining to the plan maintained on site for at least 5 years. The plan and associated recordkeeping provides documentation of this facility's implementation of its obligation to operate according to good air pollution control practice.

Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.

Authority for Requirement: 567 IAC 22.108(3)

IV. General Conditions

This permit is issued under the authority of the Iowa Code subsection 455B.133(8) and in accordance with 567 Iowa Administrative Code chapter 22.

G1. Duty to Comply

1. The permittee must comply with all conditions of the Title V permit. Any permit noncompliance constitutes a violation of the Act and is grounds for enforcement action; for a permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. *567 IAC 22.108(9)"a"*
2. Any compliance schedule shall be supplemental to, and shall not sanction noncompliance with, the applicable requirements on which it is based. *567 IAC 22.105 (2)"h"(3)*
3. Where an applicable requirement of the Act is more stringent than an applicable requirement of regulations promulgated under Title IV of the Act, both provisions shall be enforceable by the administrator and are incorporated into this permit. *567 IAC 22.108 (1)"b"*
4. Unless specified as either "state enforceable only" or "local program enforceable only", all terms and conditions in the permit, including provisions to limit a source's potential to emit, are enforceable by the administrator and citizens under the Act. *567 IAC 22.108 (14)*
5. It shall not be a defense for a permittee, in an enforcement action, that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit. *567 IAC 22.108 (9)"b"*

G2. Permit Expiration

1. Except as provided in 567 IAC 22.104, the expiration of this permit terminates the permittee's right to operate unless a timely and complete application has been submitted for renewal. Any testing required for renewal shall be completed before the application is submitted. *567 IAC 22.116(2)*
2. To be considered timely, the owner, operator, or designated representative (where applicable) of each source required to obtain a Title V permit shall present or mail the Air Quality Bureau, Iowa Department of Natural Resources, Air Quality Bureau, 7900 Hickman Rd, Suite #1, Urbandale, Iowa 50322, two copies (three if your facility is located in Linn or Polk county) of a complete permit application, at least 6 months but not more than 18 months prior to the date of permit expiration. An additional copy must also be sent to EPA Region VII, Attention: Chief of Air Permits, 901 N. 5th St., Kansas City, KS 66101. The application must include all emission points, emission units, air pollution control equipment, and monitoring devices at the facility. All emissions generating activities, including fugitive emissions, must be included. The definition of a complete application is as indicated in 567 IAC 22.105(2). *567 IAC 22.105*

G3. Certification Requirement for Title V Related Documents

Any application, report, compliance certification or other document submitted pursuant to this permit shall contain certification by a responsible official of truth, accuracy, and completeness. All certifications shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete. *567 IAC 22.107 (4)*

G4. Annual Compliance Certification

By March 31 of each year, the permittee shall submit compliance certifications for the previous calendar year. The certifications shall include descriptions of means to monitor the compliance status of all emissions sources including emissions limitations, standards, and work practices in accordance with applicable requirements. The certification for a source shall include the

identification of each term or condition of the permit that is the basis of the certification; the compliance status; whether compliance was continuous or intermittent; the method(s) used for determining the compliance status of the source, currently and over the reporting period consistent with all applicable department rules. For sources determined not to be in compliance at the time of compliance certification, a compliance schedule shall be submitted which provides for periodic progress reports, dates for achieving activities, milestones, and an explanation of why any dates were missed and preventive or corrective measures. The compliance certification shall be submitted to the administrator, director, and the appropriate DNR Field office. *567 IAC 22.108 (15)"e"*

G5. Semi-Annual Monitoring Report

By March 31 and September 30 of each year, the permittee shall submit a report of any monitoring required under this permit for the 6 month periods of July 1 to December 31 and January 1 to June 30, respectively. All instances of deviations from permit requirements must be clearly identified in these reports, and the report must be signed by a responsible official, consistent with 567 IAC 22.107(4). The semi-annual monitoring report shall be submitted to the director and the appropriate DNR Field office. *567 IAC 22.108 (5)*

G6. Annual Fee

1. The permittee is required under subrule 567 IAC 22.106 to pay an annual fee based on the total tons of actual emissions of each regulated air pollutant. Beginning July 1, 1996, Title V operating permit fees will be paid on July 1 of each year. The fee shall be based on emissions for the previous calendar year.
2. The fee amount shall be calculated based on the first 4,000 tons of each regulated air pollutant emitted each year. The fee to be charged per ton of pollutant will be available from the department by June 1 of each year. The Responsible Official will be advised of any change in the annual fee per ton of pollutant.
3. The following forms shall be submitted annually by March 31 documenting actual emissions for the previous calendar year.
 - a. Form 1.0 "Facility Identification";
 - b. Form 4.0 "Emissions unit-actual operations and emissions" for each emission unit;
 - c. Form 5.0 "Title V annual emissions summary/fee"; and
 - d. Part 3 "Application certification."
4. The fee shall be submitted annually by July 1. The fee shall be submitted with the following forms:
 - a. Form 1.0 "Facility Identification";
 - b. Form 5.0 "Title V annual emissions summary/fee";
 - c. Part 3 "Application certification."
5. If there are any changes to the emission calculation form, the department shall make revised forms available to the public by January 1. If revised forms are not available by January 1, forms from the previous year may be used and the year of emissions documented changed. The department shall calculate the total statewide Title V emissions for the prior calendar year and make this information available to the public no later than April 30 of each year.
6. Phase I acid rain affected units under section 404 of the Act shall not be required to pay a fee for emissions which occur during the years 1993 through 1999 inclusive.
7. The fee for a portable emissions unit or stationary source which operates both in Iowa and out of state shall be calculated only for emissions from the source while operating in Iowa.

8. Failure to pay the appropriate Title V fee represents cause for revocation of the Title V permit as indicated in 567 IAC 22.115(1)"d".

G7. Inspection of Premises, Records, Equipment, Methods and Discharges

Upon presentation of proper credentials and any other documents as may be required by law, the permittee shall allow the director or the director's authorized representative to:

1. Enter upon the permittee's premises where a Title V source is located or emissions-related activity is conducted, or where records must be kept under the conditions of the permit;
2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit;
3. Inspect, at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit; and
4. Sample or monitor, at reasonable times, substances or parameters for the purpose of ensuring compliance with the permit or other applicable requirements. *567 IAC 22.108 (15)"b"*

G8. Duty to Provide Information

The permittee shall furnish to the director, within a reasonable time, any information that the director may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee also shall furnish to the director copies of records required to be kept by the permit, or for information claimed to be confidential, the permittee shall furnish such records directly to the administrator of EPA along with a claim of confidentiality. *567 IAC 22.108 (9)"e"*

G9. General Maintenance and Repair Duties

The owner or operator of any air emission source or control equipment shall:

1. Maintain and operate the equipment or control equipment at all times in a manner consistent with good practice for minimizing emissions.
2. Remedy any cause of excess emissions in an expeditious manner.
3. Minimize the amount and duration of any excess emission to the maximum extent possible during periods of such emissions. These measures may include but not be limited to the use of clean fuels, production cutbacks, or the use of alternate process units or, in the case of utilities, purchase of electrical power until repairs are completed.
4. Schedule, at a minimum, routine maintenance of equipment or control equipment during periods of process shutdowns to the maximum extent possible. *567 IAC 24.2(1)*

G10. Recordkeeping Requirements for Compliance Monitoring

1. In addition to any source specific recordkeeping requirements contained in this permit, the permittee shall maintain the following compliance monitoring records, where applicable:
 - a. The date, place and time of sampling or measurements
 - b. The date the analyses were performed.
 - c. The company or entity that performed the analyses.
 - d. The analytical techniques or methods used.
 - e. The results of such analyses; and
 - f. The operating conditions as existing at the time of sampling or measurement.
 - g. The records of quality assurance for continuous compliance monitoring systems (including but not limited to quality control activities, audits and calibration drifts.)
2. The permittee shall retain records of all required compliance monitoring data and support information for a period of at least 5 years from the date of compliance monitoring sample, measurement report or application. Support information includes all calibration and maintenance

records and all original strip chart recordings for continuous compliance monitoring, and copies of all reports required by the permit.

3. For any source which in its application identified reasonably anticipated alternative operating scenarios, the permittee shall:

- a. Comply with all terms and conditions of this permit specific to each alternative scenario.
- b. Maintain a log at the permitted facility of the scenario under which it is operating.
- c. Consider the permit shield, if provided in this permit, to extend to all terms and conditions under each operating scenario. *567 IAC 22.108(4), 567 IAC 22.108(12)*

G11. Evidence used in establishing that a violation has or is occurring.

Notwithstanding any other provisions of these rules, any credible evidence may be used for the purpose of establishing whether a person has violated or is in violation of any provisions herein.

1. Information from the use of the following methods is presumptively credible evidence of whether a violation has occurred at a source:

- a. A monitoring method approved for the source and incorporated in an operating permit pursuant to 567 Chapter 22;
- b. Compliance test methods specified in 567 Chapter 25; or
- c. Testing or monitoring methods approved for the source in a construction permit issued pursuant to 567 Chapter 22.

2. The following testing, monitoring or information gathering methods are presumptively credible testing, monitoring, or information gathering methods:

- a. Any monitoring or testing methods provided in these rules; or
- b. Other testing, monitoring, or information gathering methods that produce information comparable to that produced by any method in subrule 21.5(1) or this subrule. *567 IAC 21.5(1)-567 IAC 21.5(2)*

G12. Prevention of Accidental Release: Risk Management Plan Notification and Compliance Certification

If the permittee is required to develop and register a risk management plan pursuant to section 112(r) of the Act, the permittee shall notify the department of this requirement. The plan shall be filed with all appropriate authorities by the deadline specified by EPA. A certification that this risk management plan is being properly implemented shall be included in the annual compliance certification of this permit. *567 IAC 22.108(6)*

G13. Hazardous Release

The permittee must report any situation involving the actual, imminent, or probable release of a hazardous substance into the atmosphere which, because of the quantity, strength and toxicity of the substance, creates an immediate or potential danger to the public health, safety or to the environment. A verbal report shall be made to the department at (515) 281-8694 and to the local police department or the office of the sheriff of the affected county as soon as possible but not later than six hours after the discovery or onset of the condition. This verbal report must be followed up with a written report as indicated in 567 IAC 131.2(2). *567 IAC Chapter 131-State Only*

G14. Excess Emissions and Excess Emissions Reporting Requirements

1. Excess Emissions. Excess emission during a period of startup, shutdown, or cleaning of control equipment is not a violation of the emission standard if the startup, shutdown or cleaning is accomplished expeditiously and in a manner consistent with good practice for minimizing emissions. Cleaning of control equipment which does not require the shutdown of the process

equipment shall be limited to one six-minute period per one-hour period. An incident of excess emission (other than an incident during startup, shutdown or cleaning of control equipment) is a violation. If the owner or operator of a source maintains that the incident of excess emission was due to a malfunction, the owner or operator must show that the conditions which caused the incident of excess emission were not preventable by reasonable maintenance and control measures. Determination of any subsequent enforcement action will be made following review of this report. If excess emissions are occurring, either the control equipment causing the excess emission shall be repaired in an expeditious manner or the process generating the emissions shall be shutdown within a reasonable period of time. An expeditious manner is the time necessary to determine the cause of the excess emissions and to correct it within a reasonable period of time. A reasonable period of time is eight hours plus the period of time required to shut down the process without damaging the process equipment or control equipment. In the case of an electric utility, a reasonable period of time is eight hours plus the period of time until comparable generating capacity is available to meet consumer demand with the affected unit out of service, unless, the director shall, upon investigation, reasonably determine that continued operation constitutes an unjustifiable environmental hazard and issue an order that such operation is not in the public interest and require a process shutdown to commence immediately.

2. Excess Emissions Reporting

a. Oral Reporting of Excess Emissions. An incident of excess emission (other than an incident of excess emission during a period of startup, shutdown, or cleaning) shall be reported to the appropriate field office of the department within eight hours of, or at the start of the first working day following the onset of the incident. The reporting exemption for an incident of excess emission during startup, shutdown or cleaning does not relieve the owner or operator of a source with continuous monitoring equipment of the obligation of submitting reports required in 567-subrule 25.1(6). An oral report of excess emission is not required for a source with operational continuous monitoring equipment (as specified in 567-subrule 25.1(1)) if the incident of excess emission continues for less than 30 minutes and does not exceed the applicable emission standard by more than 10 percent or the applicable visible emission standard by more than 10 percent opacity. The oral report may be made in person or by telephone and shall include as a minimum the following:

- i. The identity of the equipment or source operation from which the excess emission originated and the associated stack or emission point.
- ii. The estimated quantity of the excess emission.
- iii. The time and expected duration of the excess emission.
- iv. The cause of the excess emission.
- v. The steps being taken to remedy the excess emission.
- vi. The steps being taken to limit the excess emission in the interim period.

b. Written Reporting of Excess Emissions. A written report of an incident of excess emission shall be submitted as a follow-up to all required oral reports to the department within seven days of the onset of the upset condition, and shall include as a minimum the following:

- i. The identity of the equipment or source operation point from which the excess emission originated and the associated stack or emission point.
- ii. The estimated quantity of the excess emission.
- iii. The time and duration of the excess emission.

- iv. The cause of the excess emission.
- v. The steps that were taken to remedy and to prevent the recurrence of the incident of excess emission.
- vi. The steps that were taken to limit the excess emission.
- vii. If the owner claims that the excess emission was due to malfunction, documentation to support this claim. *567 IAC 24.1(1)-567 IAC 24.1(4)*

3. Emergency Defense for Excess Emissions. For the purposes of this permit, an “emergency” means any situation arising from sudden and reasonably unforeseeable events beyond the control of the source, including acts of God, which requires immediate corrective action to restore normal operation, and that causes the source to exceed a technology-based emission limitation under the permit due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include non-compliance, to the extent caused by improperly designed equipment, lack of preventive maintenance, careless or improper operation or operator error. An emergency constitutes an affirmative defense to an action brought for non-compliance with technology based limitations if it can be demonstrated through properly signed contemporaneous operating logs or other relevant evidence that:

- a. An emergency occurred and that the permittee can identify the cause(s) of the emergency;
- b. The facility at the time was being properly operated;
- c. During the period of the emergency, the permittee took all reasonable steps to minimize levels of emissions that exceeded the emissions standards or other requirements of the permit; and
- d. The permittee submitted notice of the emergency to the director by certified mail within two working days of the time when the emissions limitations were exceeded due to the emergency. This notice must contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken. *567 IAC 22.108(16)*

G15. Permit Deviation Reporting Requirements

A deviation is any failure to meet a term, condition or applicable requirement in the permit. Reporting requirements for deviations that result in a hazardous release or excess emissions have been indicated above (see G13 and G14). Unless more frequent deviation reporting is specified in the permit, any other deviation shall be documented in the semi-annual monitoring report and the annual compliance certification (see G4 and G5). *567 IAC 22.108(5)"b"*

G16. Notification Requirements for Sources That Become Subject to NSPS and NESHAP Regulations

During the term of this permit, the permittee must notify the department of any source that becomes subject to a standard or other requirement under 567-subrule 23.1(2) (standards of performance of new stationary sources) or section 111 of the Act; or 567-subrule 23.1(3) (emissions standards for hazardous air pollutants), 567-subrule 23.1(4) (emission standards for hazardous air pollutants for source categories) or section 112 of the Act. This notification shall be submitted in writing to the department pursuant to the notification requirements in 40 CFR Section 60.7, 40 CFR Section 61.07, and/or 40 CFR Section 63.9. *567 IAC 23.1(2), 567 IAC 23.1(3), 567 IAC 23.1(4)*

G17. Requirements for Making Changes to Emission Sources That Do Not Require Title V Permit Modification

1. Off Permit Changes to a Source. Pursuant to section 502(b)(10) of the CAAA, the permittee may make changes to this installation/facility without revising this permit if:
 - a. The changes are not major modifications under any provision of any program required by section 110 of the Act, modifications under section 111 of the act, modifications under section 112 of the act, or major modifications as defined in 567 IAC Chapter 22.
 - b. The changes do not exceed the emissions allowable under the permit (whether expressed therein as a rate of emissions or in terms of total emissions);
 - c. The changes are not modifications under any provisions of Title I of the Act and the changes do not exceed the emissions allowable under the permit (whether expressed therein as a rate of emissions or as total emissions);
 - d. The changes are not subject to any requirement under Title IV of the Act.
 - e. The changes comply with all applicable requirements.
 - f. For such a change, the permitted source provides to the department and the administrator by certified mail, at least 30 days in advance of the proposed change, a written notification, including the following, which must be attached to the permit by the source, the department and the administrator:
 - i. A brief description of the change within the permitted facility,
 - ii. The date on which the change will occur,
 - iii. Any change in emission as a result of that change,
 - iv. The pollutants emitted subject to the emissions trade
 - v. If the emissions trading provisions of the state implementation plan are invoked, then Title V permit requirements with which the source shall comply; a description of how the emissions increases and decreases will comply with the terms and conditions of the Title V permit.
 - vi. A description of the trading of emissions increases and decreases for the purpose of complying with a federally enforceable emissions cap as specified in and in compliance with the Title V permit; and
 - vii. Any permit term or condition no longer applicable as a result of the change.
2. Such changes do not include changes that would violate applicable requirements or contravene federally enforceable permit terms and conditions that are monitoring (including test methods), record keeping, reporting, or compliance certification requirements. *567 IAC 22.110(2)*
3. Notwithstanding any other part of this rule, the director may, upon review of a notice, require a stationary source to apply for a Title V permit if the change does not meet the requirements of subrule 22.110(1). *567 IAC 22.110(3)*
4. The permit shield provided in subrule 22.108(18) shall not apply to any change made pursuant to this rule. Compliance with the permit requirements that the source will meet using the emissions trade shall be determined according to requirements of the state implementation plan authorizing the emissions trade. *567 IAC 22.110(4)*
5. No permit revision shall be required, under any approved economic incentives, marketable permits, emissions trading and other similar programs or processes, for changes that are provided for in this permit. *567 IAC 22.108(11)*

G18. Duty to Modify a Title V Permit

1. Administrative Amendment.

a. An administrative permit amendment is a permit revision that is required to do any of the following:

- i. Correct typographical errors
- ii. Identify a change in the name, address, or telephone number of any person identified in the permit, or provides a similar minor administrative change at the source;
- iii. Require more frequent monitoring or reporting by the permittee; or
- iv. Allow for a change in ownership or operational control of a source where the director determines that no other change in the permit is necessary, provided that a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new permittee has been submitted to the director.

b. The permittee may implement the changes addressed in the request for an administrative amendment immediately upon submittal of the request. The request shall be submitted to the director.

c. Administrative amendments to portions of permits containing provisions pursuant to Title IV of the Act shall be governed by regulations promulgated by the administrator under Title IV of the Act.

2. Minor Permit Modification.

a. Minor permit modification procedures may be used only for those permit modifications that do any of the following:

- i. Do not violate any applicable requirements
- ii. Do not involve significant changes to existing monitoring, reporting or recordkeeping requirements in the Title V permit.
- iii. Do not require or change a case by case determination of an emission limitation or other standard, or increment analysis.
- iv. Do not seek to establish or change a permit term or condition for which there is no corresponding underlying applicable requirement and that the source has assumed in order to avoid an applicable requirement to which the source would otherwise be subject. Such terms and conditions include any federally enforceable emissions caps which the source would assume to avoid classification as a modification under any provision under Title I of the Act; and an alternative emissions limit approved pursuant to regulations promulgated under section 112(i)(5) of the Act.;
- v. Are not modifications under any provision of Title I of the Act; and
- vi. Are not required to be processed as significant modification.

b. An application for minor permit revision shall be on the minor Title V modification application form and shall include at least the following:

- i. A description of the change, the emissions resulting from the change, and any new applicable requirements that will apply if the change occurs.
- ii. The permittee's suggested draft permit
- iii. Certification by a responsible official, pursuant to 567 IAC 22.107(4), that the proposed modification meets the criteria for use of a minor permit modification procedures and a request that such procedures be used; and

- iv. Completed forms to enable the department to notify the administrator and the affected states as required by 567 IAC 22.107(7).
- c. The permittee may make the change proposed in its minor permit modification application immediately after it files the application. After the permittee makes this change and until the director takes any of the actions specified in 567 IAC 22.112(4) "a" to "c", the permittee must comply with both the applicable requirements governing the change and the proposed permit terms and conditions. During this time, the permittee need not comply with the existing permit terms and conditions it seeks to modify. However, if the permittee fails to comply with its proposed permit terms and conditions during this time period, existing permit terms and conditions it seeks to modify may subject the facility to enforcement action.

3. Significant Permit Modification. Significant Title V modification procedures shall be used for applications requesting Title V permit modifications that do not qualify as minor Title V modifications or as administrative amendments. These include but are not limited to all significant changes in monitoring permit terms, every relaxation of reporting or recordkeeping permit terms, and any change in the method of measuring compliance with existing requirements. Significant Title V modifications shall meet all requirements of 567 IAC Chapter 22, including those for applications, public participation, review by affected states, and review by the administrator, and those requirements that apply to Title V issuance and renewal. *567 IAC 22.111-567 IAC 22.113* The permittee shall submit an application for a significant permit modification not later than three months after commencing operation of the changed source unless the existing Title V permit would prohibit such construction or change in operation, in which event the operation of the changed source may not commence until the department revises the permit. *567 IAC 22.105(1)"a"(4)*

G19. Duty to Obtain Construction Permits

Unless exempted under 567 IAC 22.1(2), the permittee must not construct, install, reconstruct, or alter any equipment, control equipment or anaerobic lagoon without first obtaining a construction permit, conditional permit, or permit pursuant to 567 IAC 22.8, or permits required pursuant to 567 IAC 22.4 and 567 IAC 22.5. Such permits shall be obtained prior to the initiation of construction, installation or alteration of any portion of the stationary source. *567 IAC 22.1(1)*

G20. Asbestos

The permittee shall comply with 567 IAC 23.1(3)"a", and 567 IAC 23.2(3)"g" when activities involve asbestos mills, surfacing of roadways, manufacturing operations, fabricating, insulating, waste disposal, spraying applications, demolition and renovation operations, training fires and controlled burning of a demolished building. *567 IAC 23.1(3)"a", and 567 IAC 23.2*

G21. Open Burning

The permittee is prohibited from conducting open burning, except as may be allowed by 567 IAC 23.2. *567 IAC 23.2 except 23.2(3)"h"; 567 IAC 23.2(3)"h" - State Only*

G22. Acid Rain (Title IV) Emissions Allowances

The permittee shall not exceed any allowances that it holds under Title IV of the Act or the regulations promulgated there under. Annual emissions of sulfur dioxide in excess of the number of allowances to emit sulfur dioxide held by the owners and operators of the unit or the designated representative of the owners and operators is prohibited. Exceedences of applicable emission rates are prohibited. "Held" in this context refers to both those allowances assigned to the owners and operators by USEPA, and those allowances supplementally acquired by the

owners and operators. The use of any allowance prior to the year for which it was allocated is prohibited. Contravention of any other provision of the permit is prohibited. 567 IAC 22.108(7)

G23. Stratospheric Ozone and Climate Protection (Title VI) Requirements

1. The permittee shall comply with the standards for labeling of products using ozone-depleting substances pursuant to 40 CFR Part 82, Subpart E:

- a. All containers in which a class I or class II substance is stored or transported, all products containing a class I substance, and all products directly manufactured with a class I substance must bear the required warning statement if it is being introduced into interstate commerce pursuant to § 82.106.
- b. The placement of the required warning statement must comply with the requirements pursuant to § 82.108.
- c. The form of the label bearing the required warning statement must comply with the requirements pursuant to § 82.110.
- d. No person may modify, remove, or interfere with the required warning statement except as described in § 82.112.

2. The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for MVACs in Subpart B:

- a. Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to § 82.156.
- b. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to § 82.158.
- c. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to § 82.161.
- d. Persons disposing of small appliances, MVACs, and MVAC-like appliances must comply with reporting and recordkeeping requirements pursuant to § 82.166. ("MVAC-like appliance" as defined at § 82.152)
- e. Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to § 82.156.
- f. Owners/operators of appliances normally containing 50 or more pounds of refrigerant must keep records of refrigerant purchased and added to such appliances pursuant to § 82.166.

3. If the permittee manufactures, transforms, imports, or exports a class I or class II substance, the permittee is subject to all the requirements as specified in 40 CFR part 82, Subpart A, Production and Consumption Controls.

4. If the permittee performs a service on motor (fleet) vehicles when this service involves ozone-depleting substance refrigerant (or regulated substitute substance) in the motor vehicle air conditioner (MVAC), the permittee is subject to all the applicable requirements as specified in 40 CFR part 82, Subpart B, Servicing of Motor Vehicle Air Conditioners. The term "motor vehicle" as used in Subpart B does not include a vehicle in which final assembly of the vehicle has not been completed. The term "MVAC" as used in Subpart B does not include the air-tight sealed refrigeration system used as refrigerated cargo, or system used on passenger buses using HCFC-22 refrigerant,

5. The permittee shall be allowed to switch from any ozone-depleting substance to any alternative that is listed in the Significant New Alternatives Program (SNAP) promulgated pursuant to 40 CFR part 82, Subpart G, Significant New Alternatives Policy Program. 40 CFR part 82

G24. Permit Reopenings

1. This permit may be modified, revoked, reopened, and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition. *567 IAC 22.108(9)"c"*
2. Additional applicable requirements under the Act become applicable to a major part 70 source with a remaining permit term of 3 or more years. Revisions shall be made as expeditiously as practicable, but not later than 18 months after the promulgation of such standards and regulations.
 - a. Reopening and revision on this ground is not required if the permit has a remaining term of less than three years;
 - b. Reopening and revision on this ground is not required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions have been extended pursuant to 40 CFR 70.4(b)(10)(i) or (ii) as amended to June 25, 1993.
 - c. Reopening and revision on this ground is not required if the additional applicable requirements are implemented in a general permit that is applicable to the source and the source receives approval for coverage under that general permit. *567 IAC 22.108(17)"a"*, *567 IAC 22.108(17)"b"*
3. A permit shall be reopened and revised under any of the following circumstances:
 - a. The department receives notice that the administrator has granted a petition for disapproval of a permit pursuant to 40 CFR 70.8(d) as amended to June 25, 1993, provided that the reopening may be stayed pending judicial review of that determination;
 - b. The department or the administrator determines that the Title V permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the Title V permit;
 - c. Additional applicable requirements under the Act become applicable to a Title V source, provided that the reopening on this ground is not required if the permit has a remaining term of less than three years, the effective date of the requirement is later than the date on which the permit is due to expire, or the additional applicable requirements are implemented in a general permit that is applicable to the source and the source receives approval for coverage under that general permit. Such a reopening shall be complete not later than 18 months after promulgation of the applicable requirement.
 - d. Additional requirements, including excess emissions requirements, become applicable to a Title IV affected source under the acid rain program. Upon approval by the administrator, excess emissions offset plans shall be deemed to be incorporated into the permit.
 - e. The department or the administrator determines that the permit must be revised or revoked to ensure compliance by the source with the applicable requirements. *567 IAC 22.114(1)*
4. Proceedings to reopen and reissue a Title V permit shall follow the procedures applicable to initial permit issuance and shall effect only those parts of the permit for which cause to reopen exists. *567 IAC 22.114(2)*

G25. Permit Shield

1. The director may expressly include in a Title V permit a provision stating that compliance with the conditions of the permit shall be deemed compliance with any applicable requirements as of the date of permit issuance, provided that:

- a. Such applicable requirements are included and are specifically identified in the permit; or
 - b. The director, in acting on the permit application or revision, determines in writing that other requirements specifically identified are not applicable to the source, and the permit includes the determination or a concise summary thereof.
2. A Title V permit that does not expressly state that a permit shield exists shall be presumed not to provide such a shield.
3. A permit shield shall not alter or affect the following:
- a. The provisions of Section 303 of the Act (emergency orders), including the authority of the administrator under that section;
 - b. The liability of an owner or operator of a source for any violation of applicable requirements prior to or at the time of permit issuance;
 - c. The applicable requirements of the acid rain program, consistent with Section 408(a) of the Act;
 - d. The ability of the department or the administrator to obtain information from the facility pursuant to Section 114 of the Act. 567 IAC 22.108 (18)

G26. Severability

The provisions of this permit are severable and if any provision or application of any provision is found to be invalid by this department or a court of law, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected by such finding. 567 IAC 22.108 (8)

G27. Property Rights

The permit does not convey any property rights of any sort, or any exclusive privilege. 567 IAC 22.108 (9)"d"

G28. Transferability

This permit is not transferable from one source to another. If title to the facility or any part of it is transferred, an administrative amendment to the permit must be sought to determine transferability of the permit. 567 IAC 22.111 (1)"d"

G29. Disclaimer

No review has been undertaken on the engineering aspects of the equipment or control equipment other than the potential of that equipment for reducing air contaminant emissions. 567 IAC 22.3(3)"c"

G30. Notification and Reporting Requirements for Stack Tests or Monitor Certification

The permittee shall notify the department's stack test contact in writing not less than 30 days before a required test or performance evaluation of a continuous emission monitor is performed to determine compliance with an applicable requirement. For the department to consider test results a valid demonstration of compliance with applicable rules or a permit condition, such notice shall be given. Such notice shall include the time, the place, the name of the person who will conduct the test and other information as required by the department. Unless specifically waived by the department's stack test contact, a pretest meeting shall be held not later than 15 days prior to conducting the compliance demonstration. The department may accept a testing protocol in lieu of a pretest meeting. A representative of the department shall be permitted to witness the tests. Results of the tests shall be submitted in writing to the department's stack test

contact in the form of a comprehensive report within six weeks of the completion of the testing. Compliance tests conducted pursuant to this permit shall be conducted with the source operating in a normal manner at its maximum continuous output as rated by the equipment manufacturer, or the rate specified by the owner as the maximum production rate at which the source shall be operated. In cases where compliance is to be demonstrated at less than the maximum continuous output as rated by the equipment manufacturer, and it is the owner's intent to limit the capacity to that rating, the owner may submit evidence to the department that the source has been physically altered so that capacity cannot be exceeded, or the department may require additional testing, continuous monitoring, reports of operating levels, or any other information deemed necessary by the department to determine whether such source is in compliance.

Stack test notifications, reports and correspondence shall be sent to:

Stack Test Review Coordinator
Iowa DNR, Air Quality Bureau
7900 Hickman Road, Suite #1
Urbandale, IA 50322
(515) 242-6001

Within Polk and Linn Counties, stack test notifications, reports and correspondence shall also be directed to the supervisor of the respective county air pollution program.

567 IAC 25.1(7)"a", 567 IAC 25.1(9)

G31. Prevention of Air Pollution Emergency Episodes

The permittee shall comply with the provisions of 567 IAC Chapter 26 in the prevention of excessive build-up of air contaminants during air pollution episodes, thereby preventing the occurrence of an emergency due to the effects of these contaminants on the health of persons.

567 IAC 26.1(1)

G32. Contacts List

The current address and phone number for reports and notifications to the EPA administrator is:

Chief of Air Permits
EPA Region 7
Air Permits and Compliance Branch
901 N. 5th Street
Kansas City, KS 66101
(913) 551-7020

The current address and phone number for reports and notifications to the department or the Director is:

Chief, Air Quality Bureau
Iowa Department of Natural Resources
7900 Hickman Road, Suite #1
Urbandale, IA 50322
(515) 242-5100

Reports or notifications to the DNR Field Offices or local programs shall be directed to the supervisor at the appropriate field office or local program. Current addresses and phone numbers are:

Field Office 1

909 West Main – Suite 4
Manchester, IA 52057

Field Office 2

2300-15th St., SW
Mason City, IA 50401

(563) 927-2640

Field Office 3

1900 N. Grand Ave.
Spencer, IA 51301
(712) 262-4177

Field Office 5

401 SW 7th Street, Suite I
Des Moines, IA 50309
(515) 725-0268

Polk County Public Works Dept.

Air Quality Division
5885 NE 14th St.
Des Moines, IA 50313
(515) 286-3351

(641) 424-4073

Field Office 4

1401 Sunnyside Lane
Atlantic, IA 50022
(712) 243-1934

Field Office 6

1023 West Madison Street
Washington, IA 52353-1623
(319) 653-2135

Linn County Public Health Dept.

Air Pollution Control Division
501 13th St., NW
Cedar Rapids, IA 52405
(319) 892-6000

NESHAP Attachments

40 CFR 63 Subpart DDDDD

40 CFR 63 Subpart MMMM

40 CFR 63 Subpart QQQQ